

TC-355

General Export Model



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SONY®
SERVICE MANUAL

Specifications

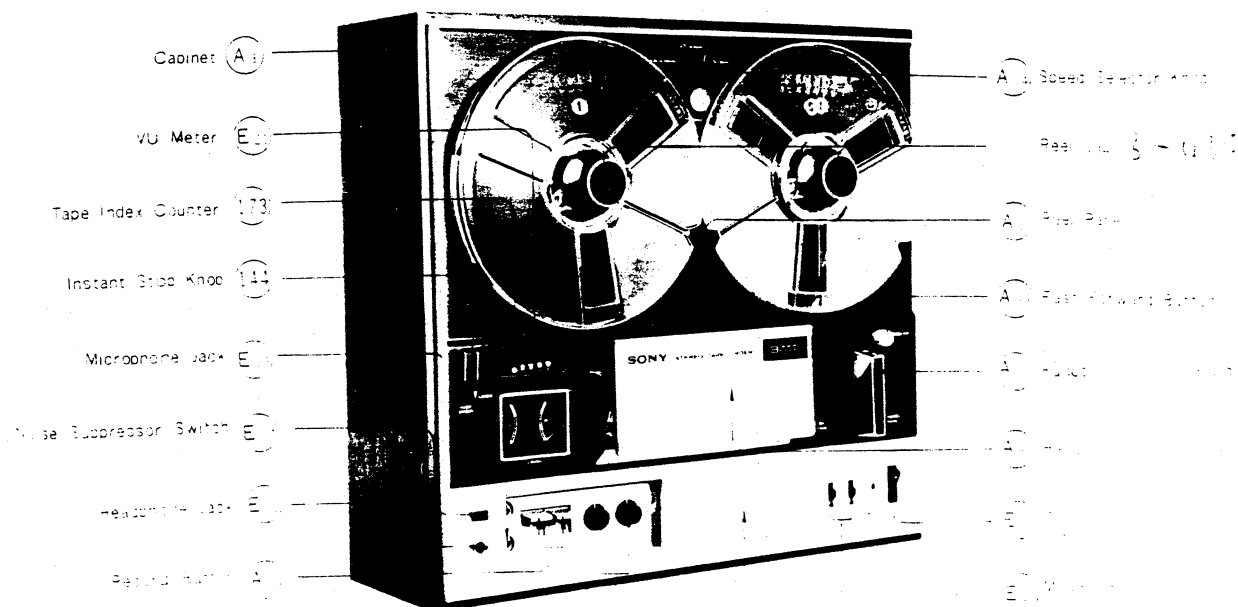
Power Requirements:	AC 50 60 Hz, 100, 110, 117, 125, 220 or 240 Volts, 30W (Voltage Selector provided in the set)
Tape Speeds:	7½ ips, 3¾ ips, 1⅞ ips (19 cm/s, 9.5 cm/s, 4.8 cm/s) with instantaneous selection for equalization changes
Reel:	7 inches or smaller
Recording System:	4 Track Stereophonic or monophonic
Head Arrangement:	4T Erase Head, EF18-2902H2 4T Record Head, RP30-2902 4T Playback Head, PP30-2902A
Frequency Response:	20~25,000 Hz at 7½ ips (19 cm/s) ±3 dB 30~20,000 Hz at 7½ ips (19 cm/s) 30~17,000 Hz at 3¾ ips (9.5 cm/s) 30~9,000 Hz at 1⅞ ips (4.8 cm/s)
Flutter and Wow:	Less than 0.15% at 7½ ips (19 cm/s) Less than 0.25% at 3¾ ips (9.5 cm/s)
Signal-to-Noise Ratio:	Better than 52 dB at 7½ ips (19 cm/s)
Harmonic Distortion:	Less than 1.6% at 7½ ips (19 cm/s)
Bias Frequency:	Approx. 160 KHz
Recording Time:	4 Track Stereophonic (with 1,800 ft tape) 1 hr 30 min at 7½ ips (19 cm/s) 3 hrs at 3¾ ips (9.5 cm/s) 6 hrs at 1⅞ ips (4.8 cm/s) 4 Track monophonic 3 hrs at 7½ ips (19 cm/s) 6 hrs at 3¾ ips (9.5 cm/s) 12 hrs at 1⅞ ips (4.8 cm/s)
Inputs:	Microphone Inputs (2) Impedance, 600Ω (will accommodate any microphone with 250~1KΩ impedance) Sensitivity, -72 dBs (0.19 mV) Auxiliary Inputs (2) Impedance, 560KΩ Sensitivity, -22 dBs (0.06 V) REC P.B Connector (1) Impedance, 10KΩ Sensitivity, -40 dBs (7.75 mV)
Outputs:	Line Outputs (2) Impedance, 100KΩ Sensitivity, 0 dBs (0.775V) Headphone (1) Impedance, 8Ω Sensitivity, -28 dBs (31 mV) REC P.B Connector (1) Impedance, 10KΩ Sensitivity, 0 dBs (0.775 V)
Transistors:	27
Diodes:	5
Dimensions:	15⅝" (W) × 7⅞" (H) × 14" (D) (386 mm × 180 mm × 355 mm)
Weight:	22 Lbs (10 Kg)

Technical Feature

General Description

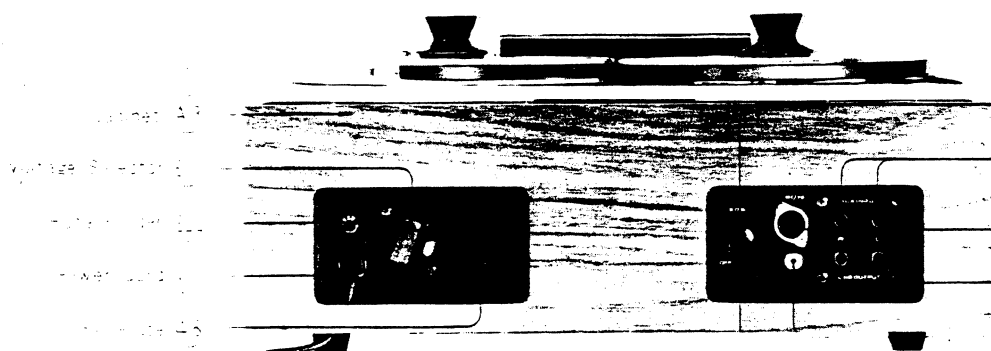
SONY Model TC-355 is a high quality 4 Track Stereo Taperecorder Deck, which can be operated in vertical position, designed for users who have desired the most faithful recording and reproduction as a successor of SONY Model TC-350.

Cabinet Top View



(Fig. 3)

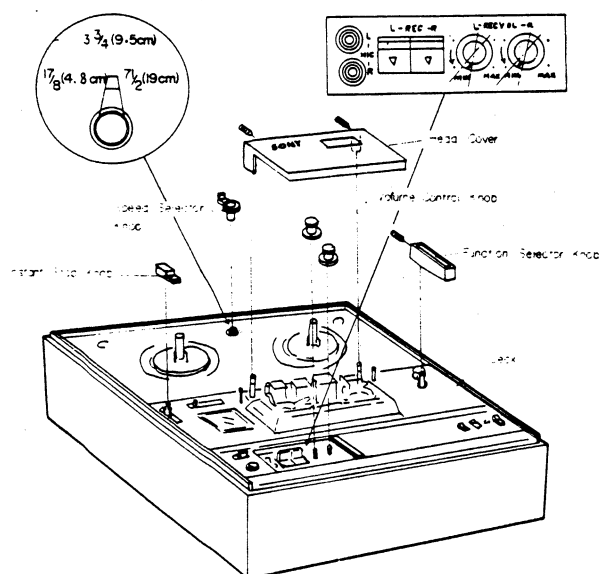
Cabinet Back View



(Fig. 4)

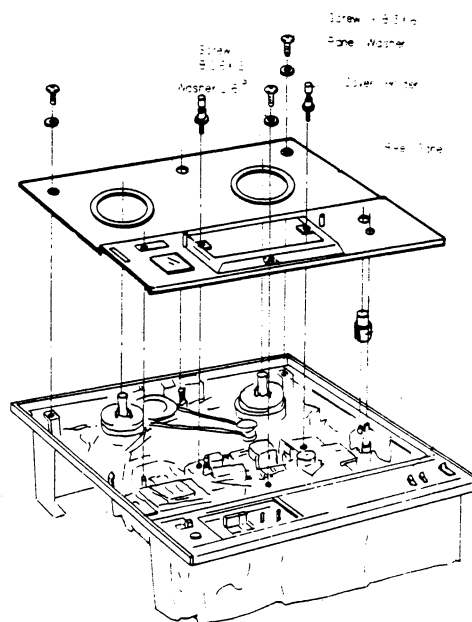
Disassembly

Head Cover and Knobs Removal



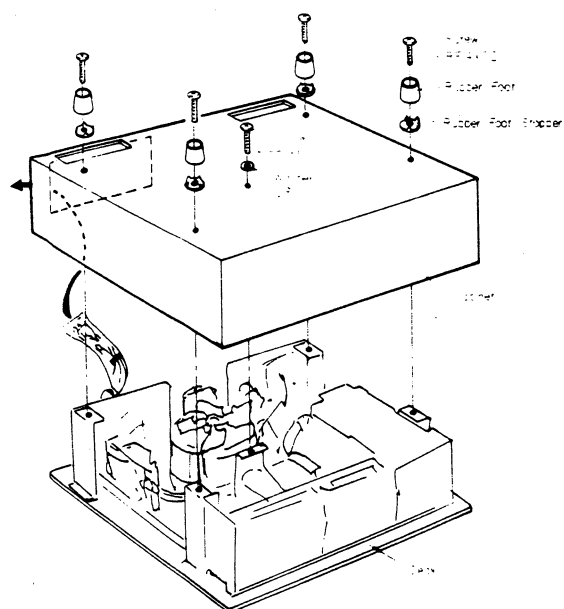
(Fig. 7)

Reel Panel Removal



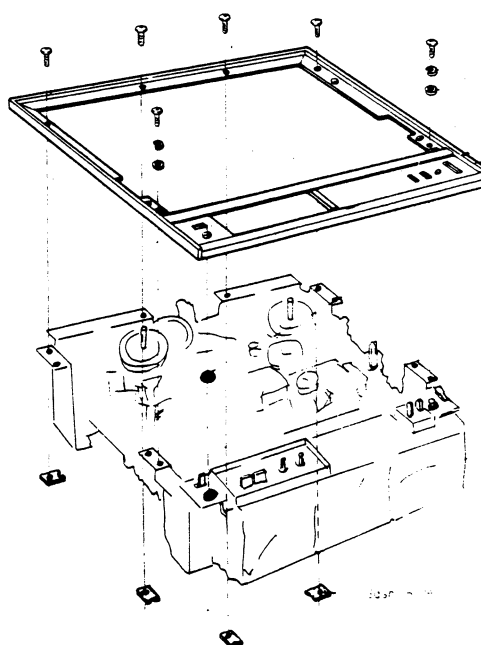
(Fig. 8)

Chassis Removal



(Fig. 9)

Sash Removal

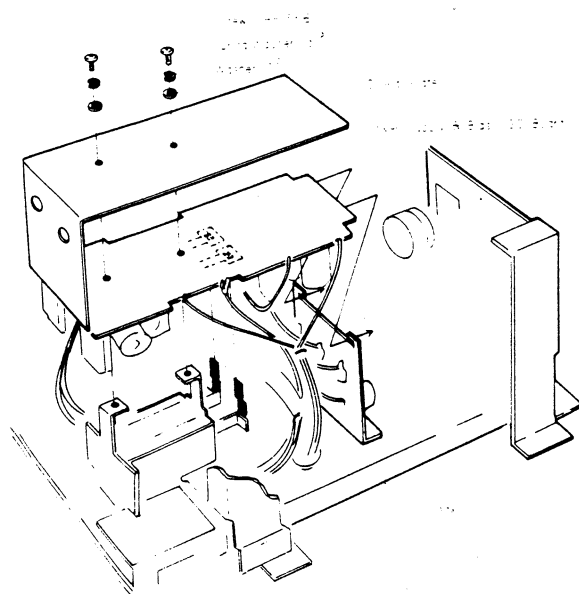


(Fig. 10)

Mounted Circuit Board Removal

Power Supply and OSC Section

Record and Playback Amplifier Sections



(Fig. 11)

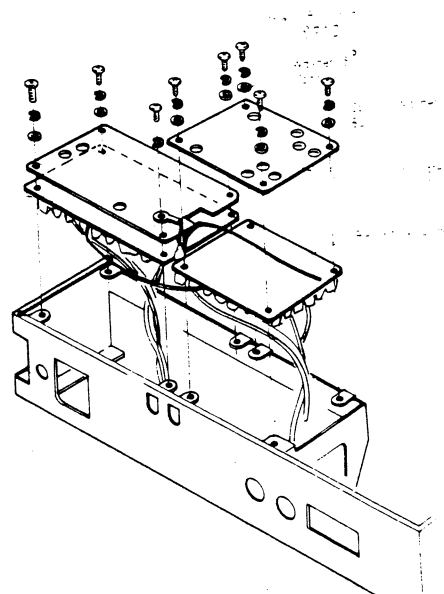
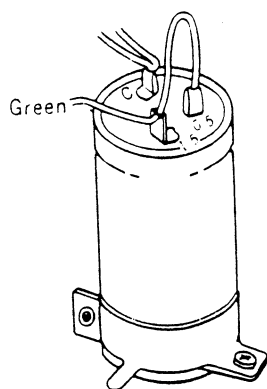


Fig. 12)

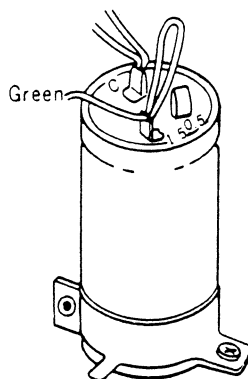
Modification to Different Power Line Frequency

Parts to be changed	For 50 Hz	For 60 Hz
1. Connection between terminals of the MP Capacitor, C310	Connect as shown in Fig. A	Connect as shown in Fig. B
2. Motor Pulley	Part No.: 3-444-064-01	Part No.: 3-444-063-01



50 Hz

Fig. A



60 Hz

Fig. B

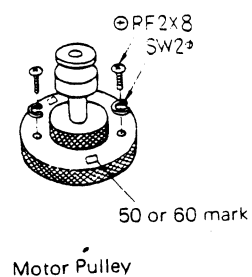
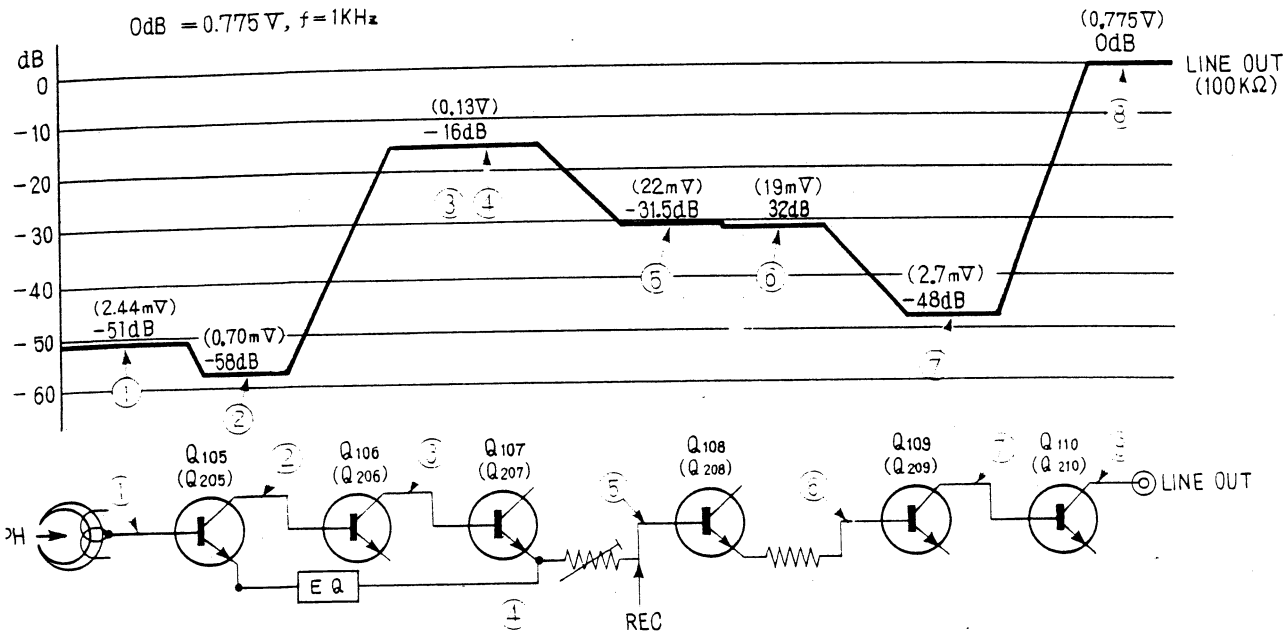


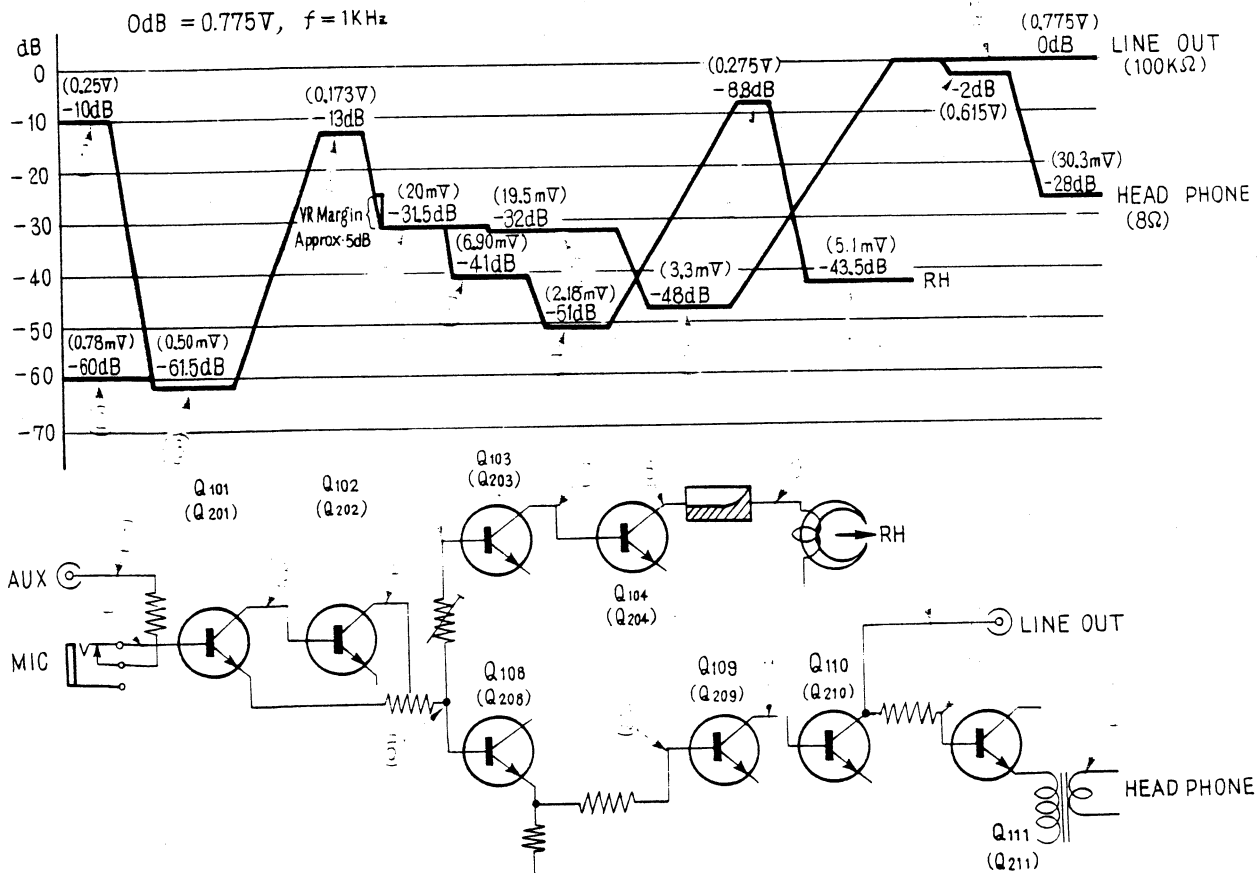
Fig. C

Level Diagram

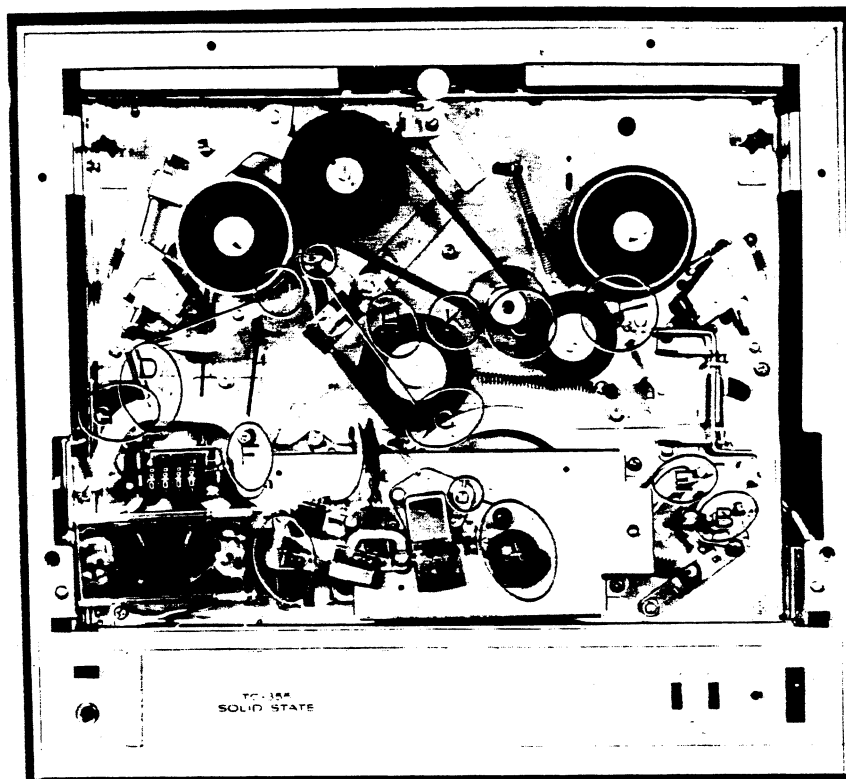
Playback

0dB = 0.775V, $f = 1\text{kHz}$ 

Recording

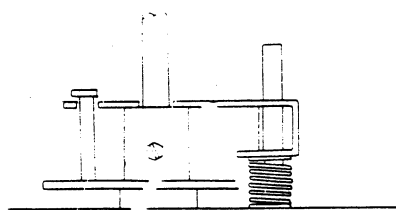
0dB = 0.775V, $f = 1\text{kHz}$ 

Mechanical Adjustment



B FAST FORWARD Lever Position Adjustment
in FAST FORWARD mode

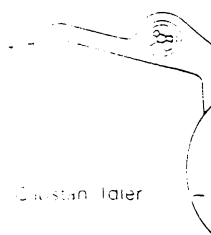
0.2~0.4mm



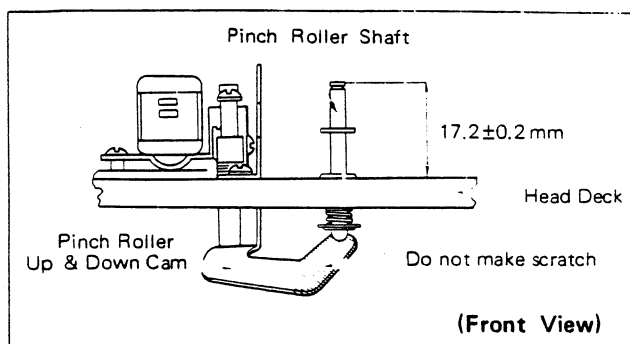
Adjust by bending.

(Side View)

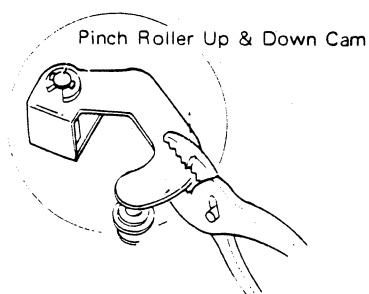
C Idler Position Adjustment
Adjust by bending



A Pinch Roller Shaft Height Adjustment

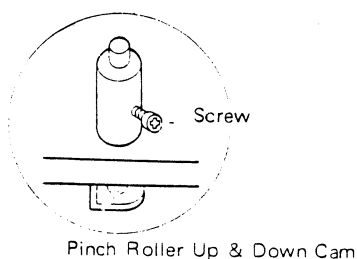


1 When adjusting roughly
Adjust by bending with pliers as shown below.



(Bottom View)

2 When adjusting accurately
Adjust to obtain 17.2±0.2 mm by loosening Screw and moving Shaft up or down.
After fastening Screw, apply Lock Paint.

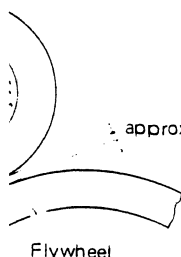


(Top View)

Adjustment

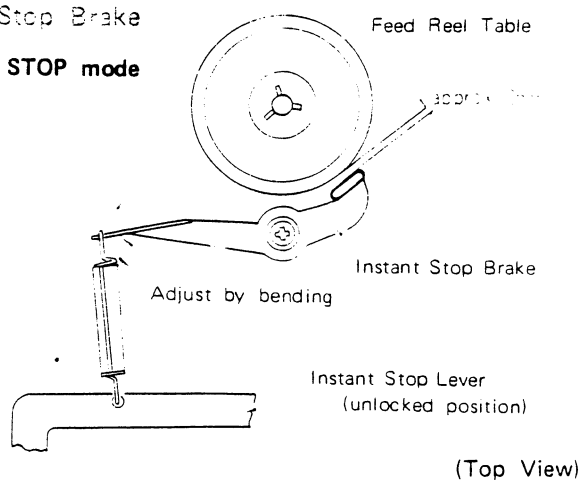
TOP mode

tan Idler Arm

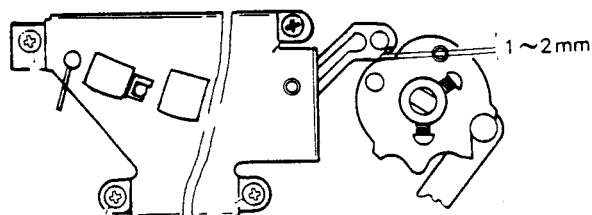


(Top View)

D Instant Stop Brake in STOP mode



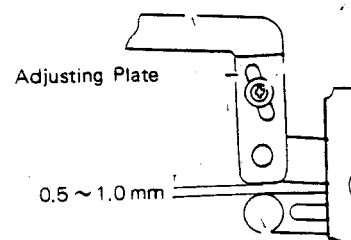
E Head Deck Position Adjustment in FORWARD mode



Loosen Screws and adjust the position of Head Deck.

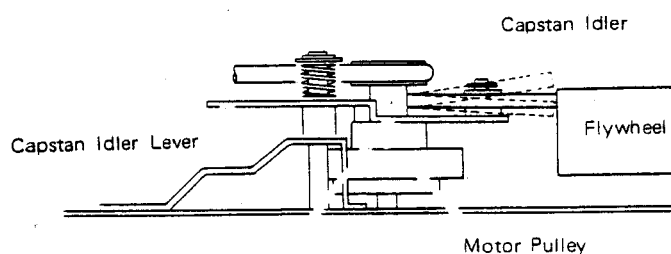
(Top View)

F Instant Stop Lever Adj in FORWARD mode Instant Stop Lever



Pinch Le

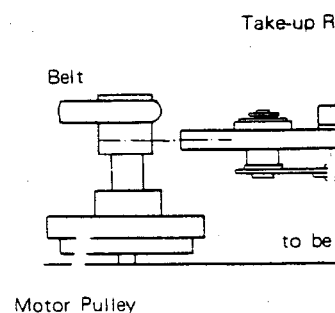
H Capstan Idler Position in FORWARD mode



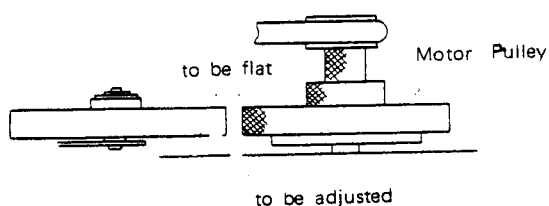
Adjust by bending, in case Idler vibrates.

(Side View)

in FAST FORWARD mode

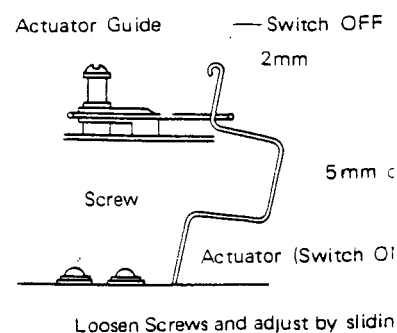


K Capstan Idler Position in STOP mode



(Side View)

L Switch OFF

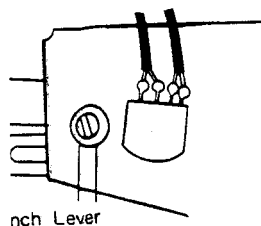


Loosen Screws and adjust by slidin

(Top View)

r Adjustment

Loosen Screws and adjust the position of Adjusting Plate.

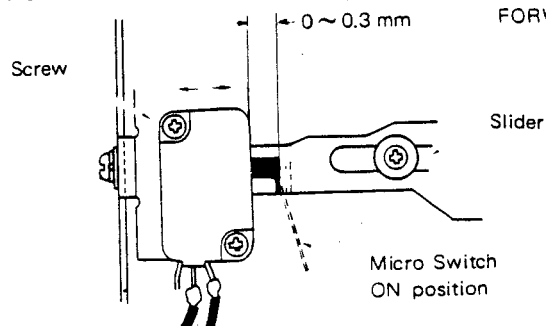


(Top View)

G

Bias ON/OFF Switch Position Adjustment

in FORWARD mode Correct the position of Slider's end in FORWARD mode.

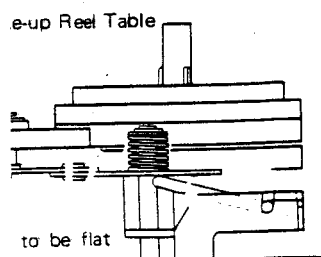


Loosen Screw shown and adjust by sliding Switch Holder.

(Top View)

djustment

D mode



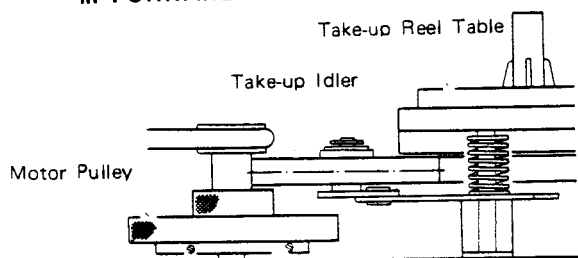
Adjust by bending.

(Side View)

J

Take-up Idler Position Adjustment

in FORWARD mode



Loosen Screws and adjust the height of Motor Pulley.

(Side View)

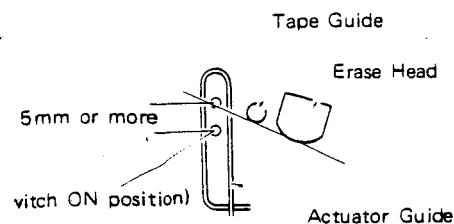
NOTE

In case the following parts are soiled with oil or dust, clean them with alcohol.

- Feed Reel Table Rim
- Take-up Reel Table Rim
- Reel Spindle
- Take-up Idler
- Capstan Idler
- Rewind Idler
- Rewind Belt
- Motor Pulley
- Flywheel Rim
- Capstan
- Pinch Roller
- Tape Index Counter
- Heads

Switch Adjustment

in OFF position



by sliding Micro Switch Holder

(Side View)

Electrical Adjustment

Item	Signal Source	Output Connection	
Voltage Regulator Adjustment	_____	V.T.V.M. across Emitter of Transistor X_{103} and Ground	STOP
Playback Head Azimuth Alignment	10KHz, 1st Section of SONY Alignment Tape Type: N-19-F2	V.T.V.M. and 100K Ω Resistor in parallel to LINE OUT	PLAYBACK
Meter Level Adjustment	700Hz, 2nd Section of SONY Alignment Tape Type: N-19-F2	V.T.V.M. and 100K Ω Resistor in parallel to LINE OUT	PLAYBACK
Playback Equalizer Adjustment (1) $7\frac{1}{2}$ ips (19 cm/sec)	SONY Alignment Tape Type: N-19-F2	V.T.V.M. and 100K Ω Resistor in parallel to LINE OUT	PLAYBACK
Playback Equalizer Adjustment (2) $3\frac{3}{4}$ ips (9.5 cm/sec)	SONY Alignment Tape Type: J-9-F2	V.T.V.M. and 100K Ω Resistor in parallel to LINE OUT	PLAYBACK
Trap Coil Adjustment	_____	V.T.V.M. and 100K Ω Resistor in parallel to Test Point and Ground See Fig. 13	RECORD
Record Head Height Adjustment	1 KHz, -60 dBs (0.78 mV) to MIC INPUT	V.T.V.M. and 100K Ω Resistor in parallel to LINE OUT	RECORD and to TAPE POSI
Record Head Azimuth Adjustment	15 KHz, -90 dBs (23 μ V) to MIC INPUT	V.T.V.M. and 100K Ω Resistor in parallel to LINE OUT	RECORD and to TAPE POSI
Recording Bias Adjustment	1 KHz, -60 dBs (0.78 mV) to MIC INPUT	V.T.V.M. and 100K Ω Resistor in parallel to LINE OUT	RECORD and to TAPE POSI
Recording Level Adjustment	1 KHz, -60 dBs (0.78 mV) to MIC INPUT	V.T.V.M. and 100K Ω Resistor in parallel to LINE OUT	RECORD and to TAPE POSI
Recording Equalizer Adjustment	1 KHz, -90 dBs, (23 μ V) to MIC INPUT	V.T.V.M. and 100K Ω Resistor in parallel to LINE OUT	RECORD and to TAPE POSI
Dummy Coil Adjustment	5 KHz, -90 dBs (23 μ V) to MIC INPUT	V.T.V.M. and 100K Ω Resistor in parallel to LINE OUT	RECORD and to TAPE POSI at 17.5 ips

NOTE:

- Before adjustments, clean and demagnetize the Erase Head, Record Head and Playback Head.
- The adjustments should be performed in the tape speed of $7\frac{1}{2}$ ips (19 cm/sec), unless otherwise specified.
- The Sound-on-Sound Switch (S_{301}) and Noise Suppressor Switch (S_{103} & S_{203}) should be set in the OFF Position.
- The following test equipment is to be provided for these adjustments.
 - (1) Audio Generator
 - (2) Attenuator (600 ohms)
 - (3) V.T.V.M.
 - (4) 100K Ω Resistor
 - (5) SONY Alignment Tape
- After adjustments, apply Lock Paint to the adjusted points.

	Adjust	Remarks																				
	R ₃₀₅ : 100 KΩ (B)	Adjust the Adjustable Resistor to obtain +25V ±1V on V.T.V.M.																				
	Azimuth Alignment Screw See Fig. 14	Adjust to obtain maximum reading on V.T.V.M.																				
	L-CH: R ₁₅₉ 5 KΩ (B) R-CH: R ₂₅₉ 5 KΩ (B)	1. Adjust Adjustable Resistors (R ₁₄₀ & R ₂₄₀) to obtain 0 dBs (0.775V) on V.T.V.M. 2. Adjust Adjustable Resistors (R ₁₅₅ & R ₂₅₅) so that Level Meters indicate the boundary between the red zone and the white zone.																				
	L-CH: R ₁₃₆ 4.7 KΩ (B) R-CH: R ₂₃₆ 4.7 KΩ (B)	Deviation against level at 700 Hz of 3rd Section <table><tr><th>Tape Section</th><th>4th</th><th>5th</th><th>6th</th><th>7th</th></tr><tr><td></td><td>10 KHz</td><td>7.5 KHz</td><td>100 Hz</td><td>50 Hz</td></tr><tr><td>L-CH</td><td>0±2 dB</td><td>0±2 dB</td><td>-4.5±2 dB</td><td>-4.0±2 dB</td></tr><tr><td>R-CH</td><td>0±2 dB</td><td>0±2 dB</td><td>-5.0±2 dB</td><td>-6.5±2 dB</td></tr></table> <p>After the adjustment, repeat the Meter Level Adjustment.</p>	Tape Section	4th	5th	6th	7th		10 KHz	7.5 KHz	100 Hz	50 Hz	L-CH	0±2 dB	0±2 dB	-4.5±2 dB	-4.0±2 dB	R-CH	0±2 dB	0±2 dB	-5.0±2 dB	-6.5±2 dB
Tape Section	4th	5th	6th	7th																		
	10 KHz	7.5 KHz	100 Hz	50 Hz																		
L-CH	0±2 dB	0±2 dB	-4.5±2 dB	-4.0±2 dB																		
R-CH	0±2 dB	0±2 dB	-5.0±2 dB	-6.5±2 dB																		
	L-CH: R ₁₃₇ 4.7 KΩ (B) R-CH: R ₂₃₇ 4.7 KΩ (B)	Deviation against the level at 500 Hz of 3rd Section <table><tr><th>Tape Section</th><th>4th</th><th>6th</th><th>7th</th><th>8th</th></tr><tr><td></td><td>6 KHz</td><td>3.5 KHz</td><td>100 Hz</td><td>50 Hz</td></tr><tr><td>L-CH</td><td>0±2 dB</td><td>0±2 dB</td><td>-2±2 dB</td><td>-4±2 dB</td></tr><tr><td>R-CH</td><td>0±2 dB</td><td>0±2 dB</td><td>-2.5±2 dB</td><td>-5±2 dB</td></tr></table>	Tape Section	4th	6th	7th	8th		6 KHz	3.5 KHz	100 Hz	50 Hz	L-CH	0±2 dB	0±2 dB	-2±2 dB	-4±2 dB	R-CH	0±2 dB	0±2 dB	-2.5±2 dB	-5±2 dB
Tape Section	4th	6th	7th	8th																		
	6 KHz	3.5 KHz	100 Hz	50 Hz																		
L-CH	0±2 dB	0±2 dB	-2±2 dB	-4±2 dB																		
R-CH	0±2 dB	0±2 dB	-2.5±2 dB	-5±2 dB																		
	L-CH: L ₁₀₂ 1.8 mH R-CH: L ₂₀₂ 1.8 mH	Adjust to obtain minimum reading on V.T.V.M.																				
Monitor Switch	Height Alignment Screw See Fig. 14	1. Turn the Height Alignment Screw to obtain maximum reading on V.T.V.M. and also turn the Swing Alignment Screw and the Azimuth Alignment Screw to obtain maximum reading on V.T.V.M. 2. Repeating Step 1, Adjust the Alignment Screws to obtain maximum reading on V.T.V.M.																				
Monitor Switch	Azimuth Alignment Screw See Fig. 14	Adjust to obtain maximum reading on V.T.V.M.																				
Monitor Switch	L-CH: C ₁₄₂ 30~200 pF R-CH: C ₂₄₂ 30~200 pF	1. Turn the Trimmer Capacitor counter-clockwise fully. 2. Turn the Trimmer Capacitor clockwise slowly. 3. The V.T.V.M. reading will go up, reaching a maximum and then falling again. Continue to turn the Trimmer Capacitor until the V.T.V.M. reads 0.5 dB below from the maximum value.																				
Monitor Switch	L-CH: R ₁₁₄ 5 KΩ (B) R-CH: R ₂₁₄ 5 KΩ (B)	1. Set the Monitor Switch (S ₁₀₂ & S ₂₀₂) to the Source Position. 2. Feed the Signal to MIC INPUT and turn the Record Volume Controls (R ₁₁₃ & R ₂₁₃) clockwise so that Level Meters indicate the boundary between the red zone and the white zone. 3. Record the signal on a blank Tape. 4. Set the Monitor Switch (S ₁₀₂ & S ₂₀₂) to the Tape Position and playback the signal recorded in the Step 3. 5. Adjust the Adjustable Resistors (R ₁₁₄ & R ₂₁₄) to obtain 0 dBs (0.775V) on V.T.V.M.																				
Monitor Switch	L-CH: L ₁₀₁ 1.8~1.45 mH R-CH: L ₂₀₁ 1.8~1.45 mH	1. Read Line Out Level on V.T.V.M. 2. Feed a 20 KHz, -90 dBs (23μV) to MIC INPUT and record it. 3. Playback a signal recorded in Step 2, and adjust the Equalizer Coil (L ₁₀₁ & L ₂₀₁) to obtain just the same level comparing with Step 1. [V.T.V.M. indicates approx. 0 dBs (0.775V)]																				
Monitor Switch speed.	L-CH: L ₁₀₃ 1 mH R-CH: L ₂₀₃ 1 mH	1. Record the signal with STEREO and playback it. 2. Record the signal only LEFT (RIGHT) Channel and playback it and adjust the Dummy Coil L ₁₀₃ (L ₂₀₃) to obtain just the same level comparing with Step 1.																				

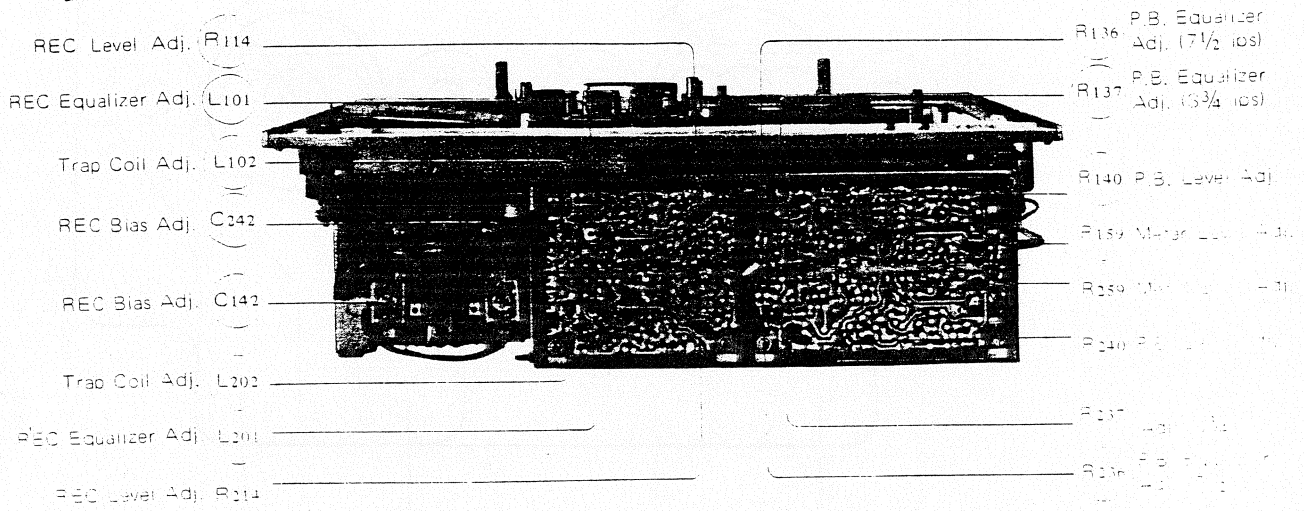
6. Bias Voltage across Head shall be read with the following values on V.T.V.M.

Record Head: approx. 11~21 volts

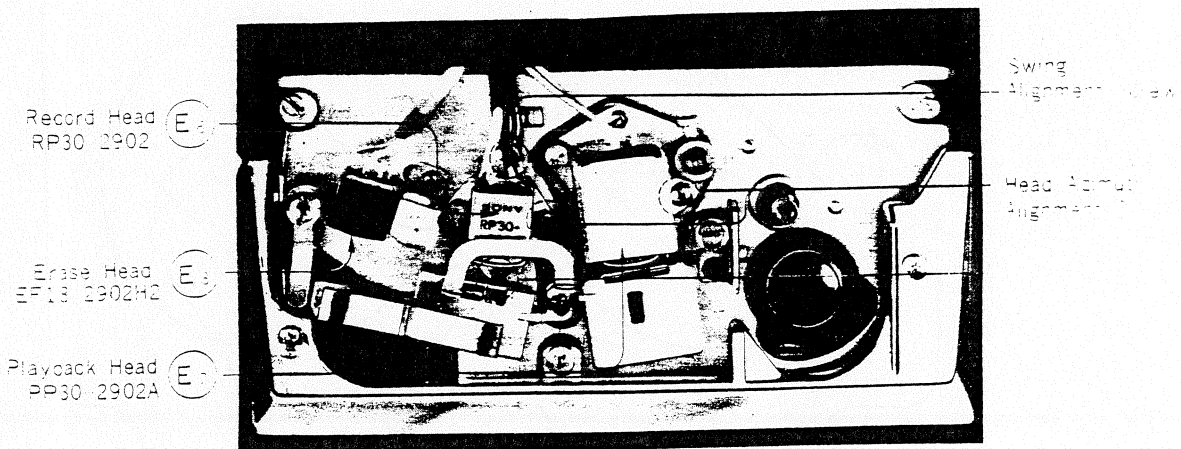
Erase Head: approx. 155~215 volts

F2 & J-9-F2 (6) Blank Tape

Adjusting Positions



(Fig. 13)

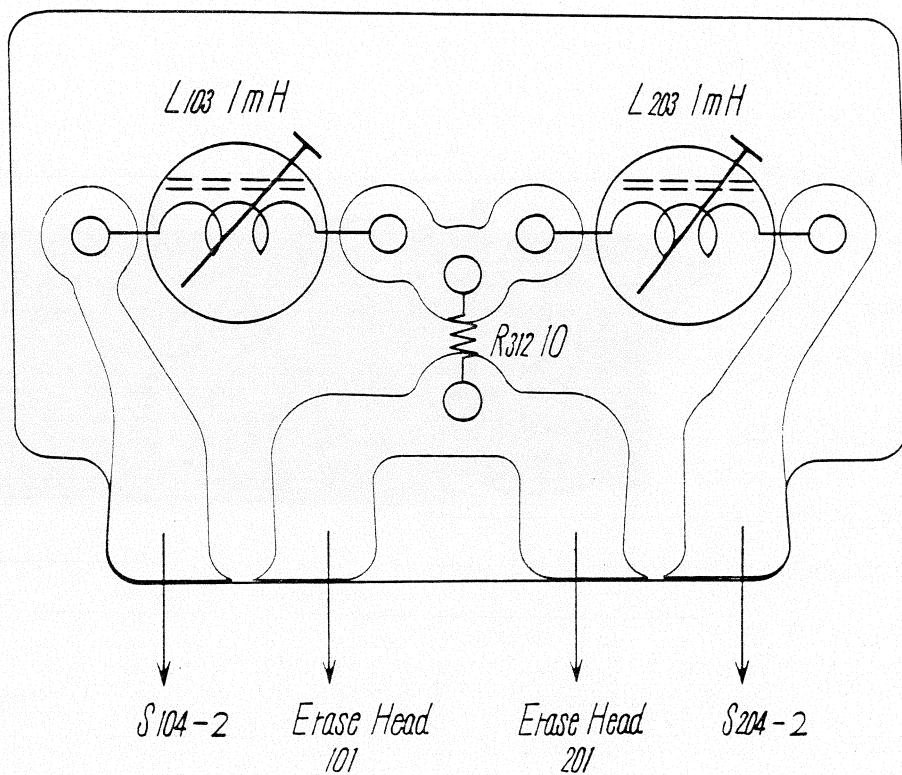


(Fig. 14)

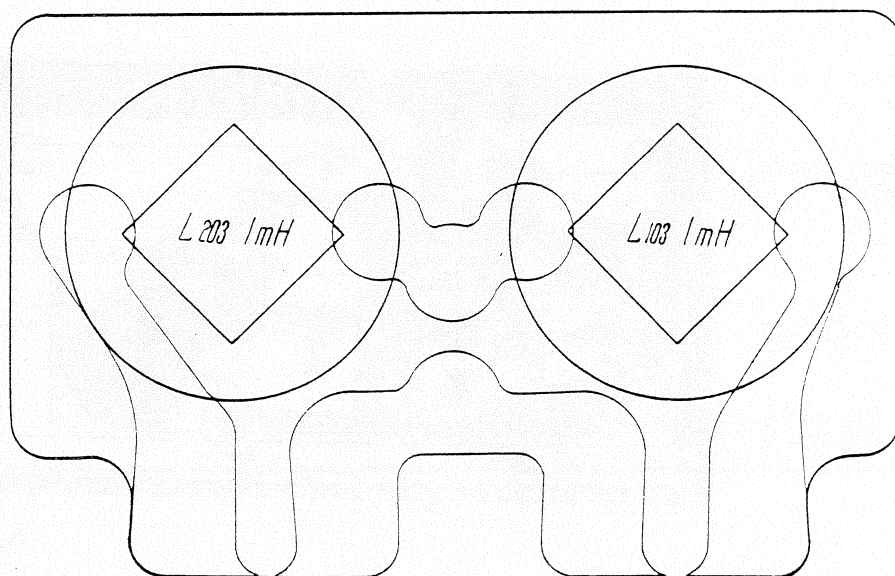
Mounting Diagram

Sub Board Section

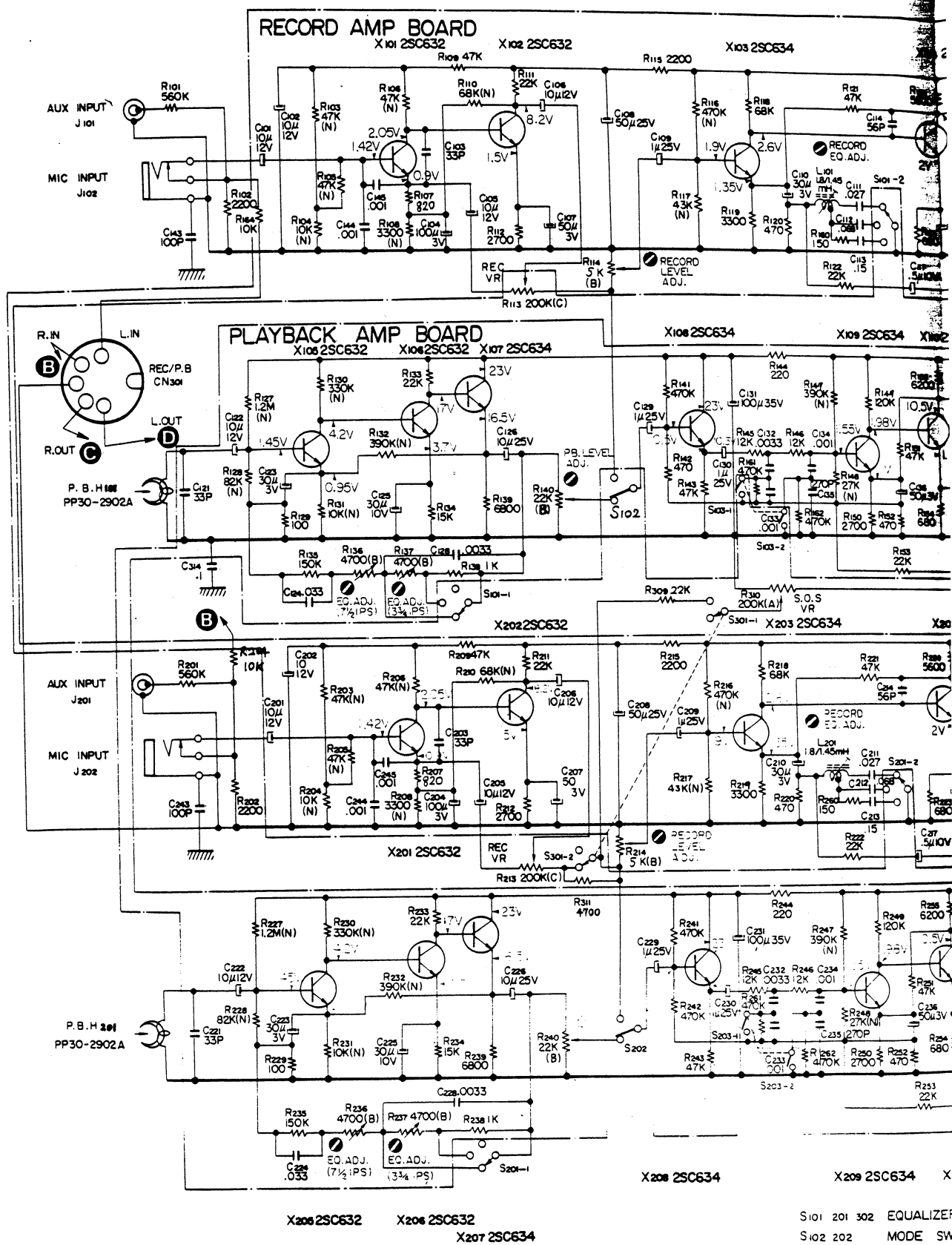
—Conductor Side—

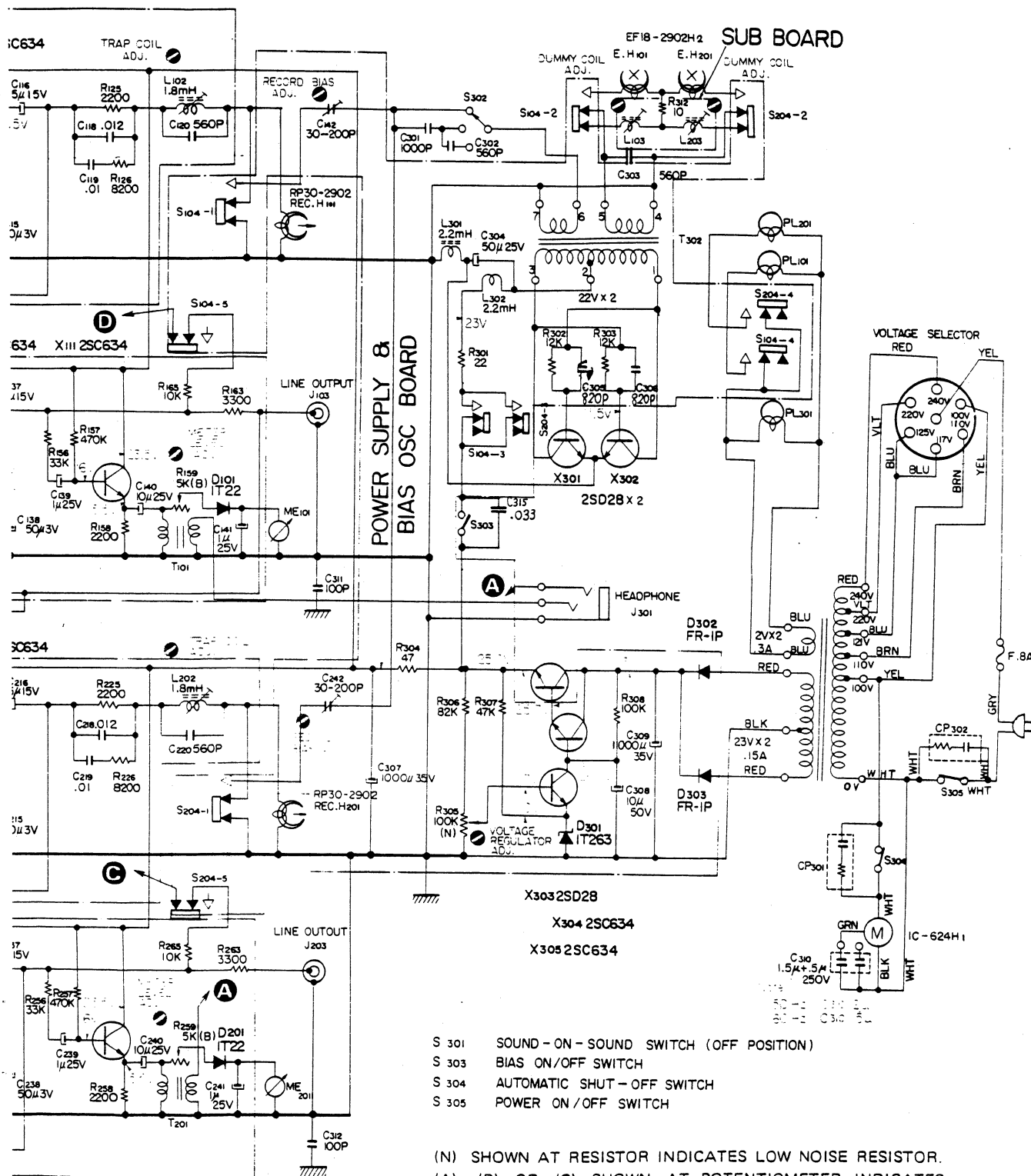


—Component Side—



Schematic Diagram



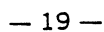


IC634 X211 2SC634

WITCH [7 1/2 IPS (19cm/sec) POSITION]
(TAPE POSITION)
SS SWITCH (OFF POSITION)
CH (OFF POSITION)

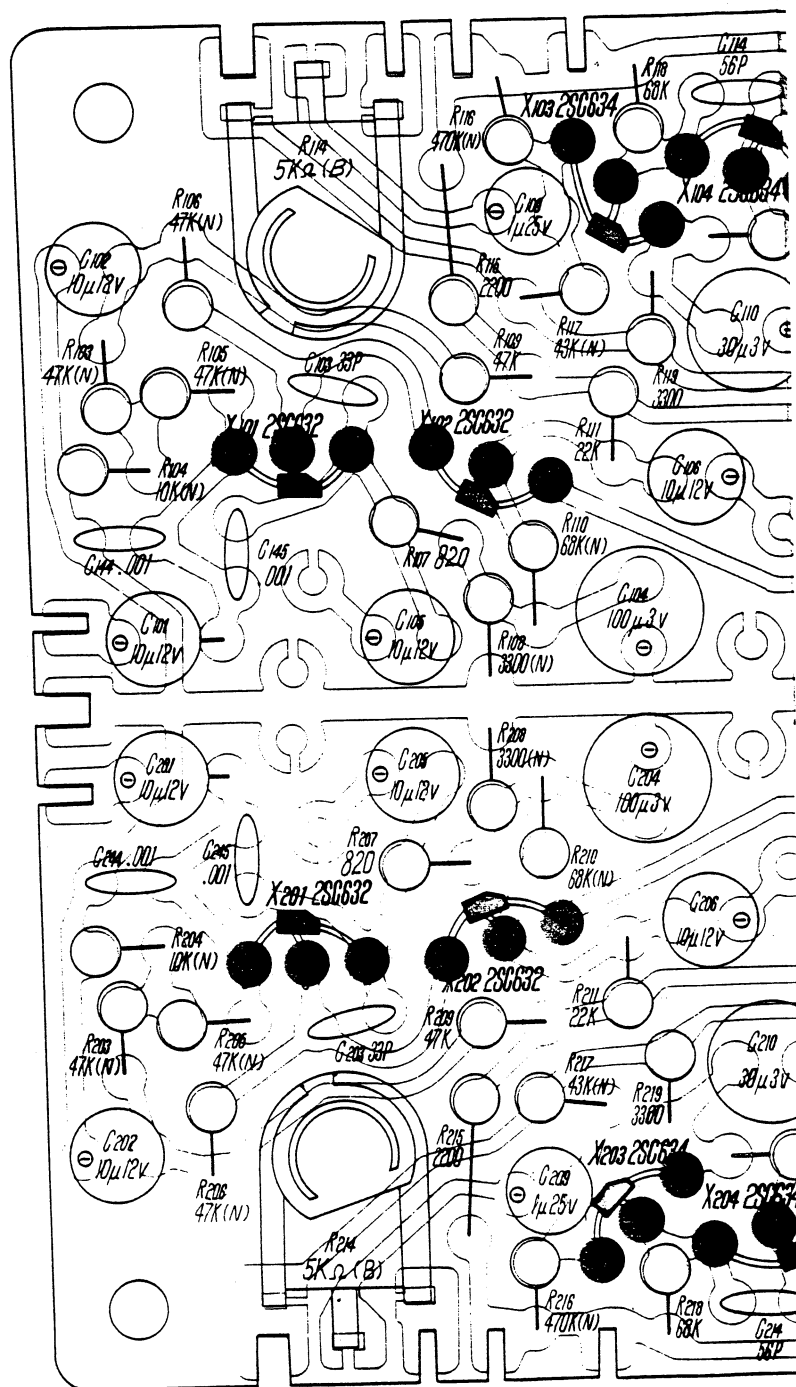
VOLTAGE VALUES SHOWN ARE MEASURED WITH A CIRCUIT TESTER (20 kΩ/V) IN RECORD MODE WITH NO SIGNAL INPUT AT 7 1/2 IPS (19 cm/sec).

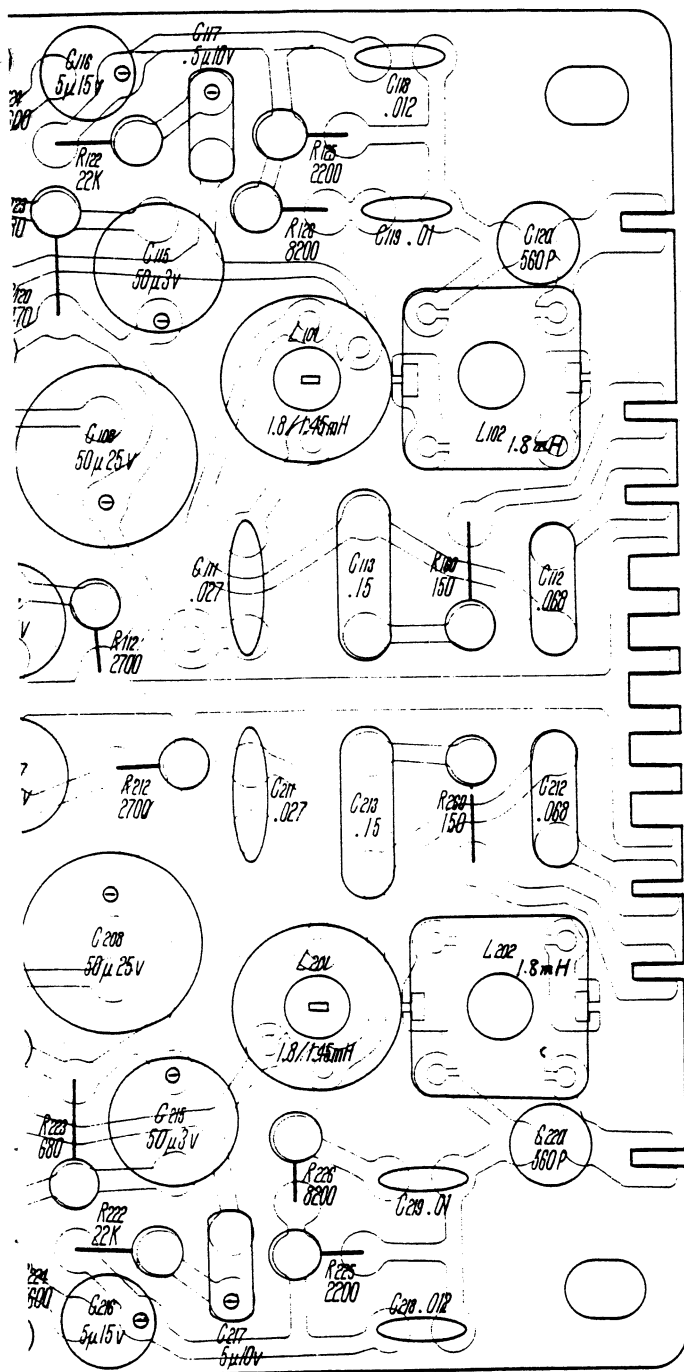
—Conductor Side—



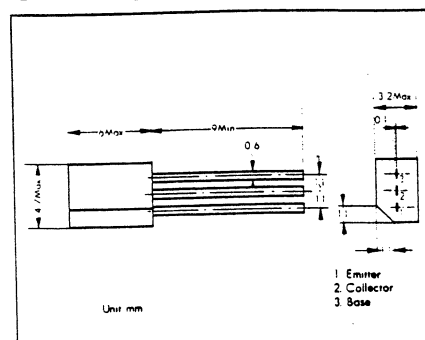


Mounting Diagram
Record Amplifier Board Section
 —Component Side—

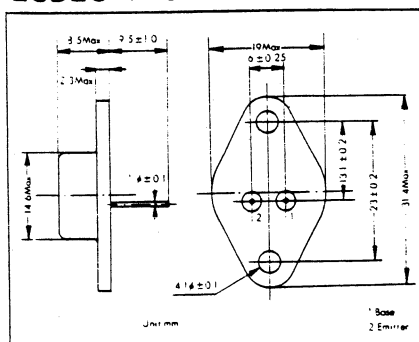




2SC63 □ Transistor



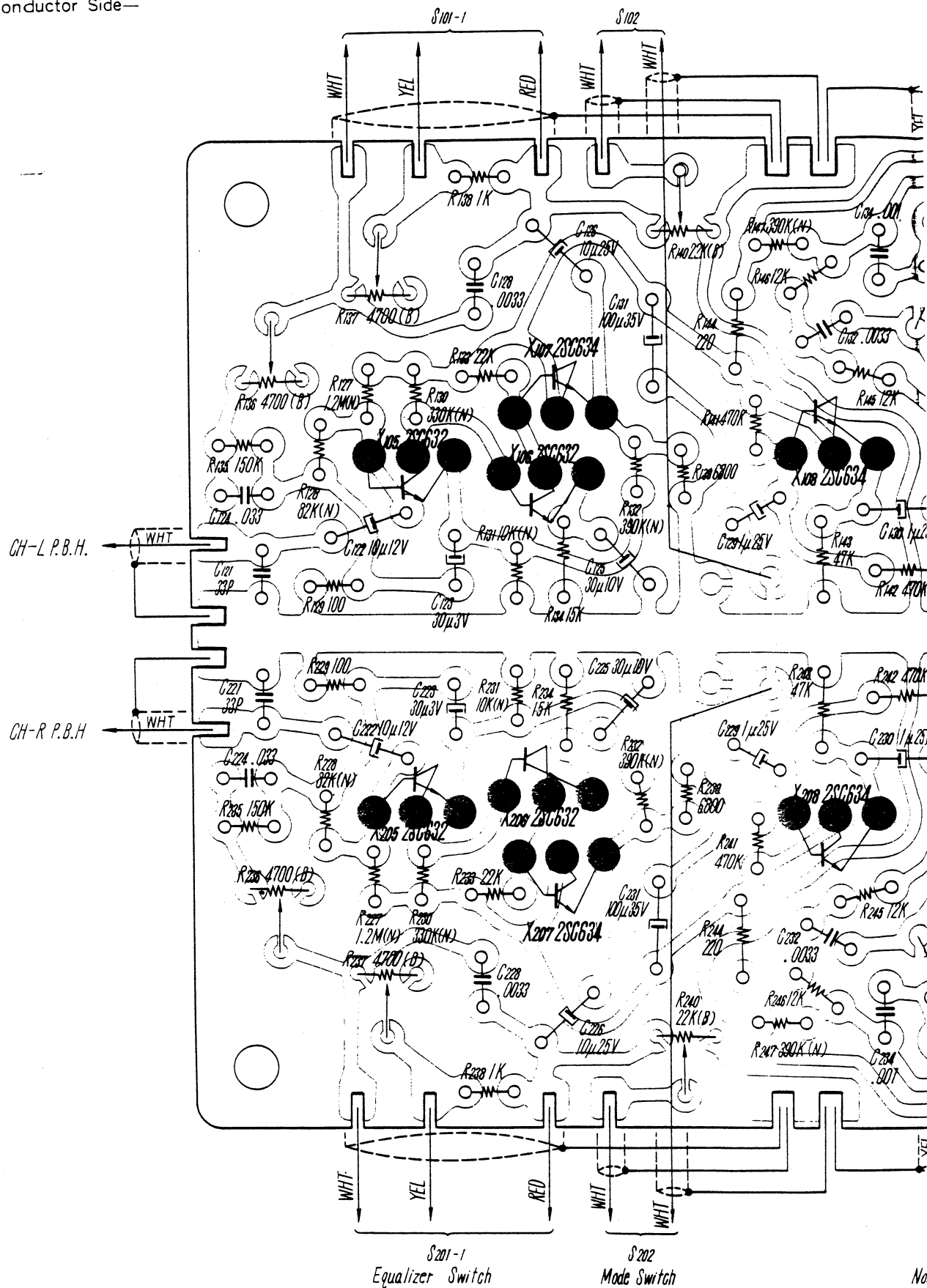
2SD28 Transistor

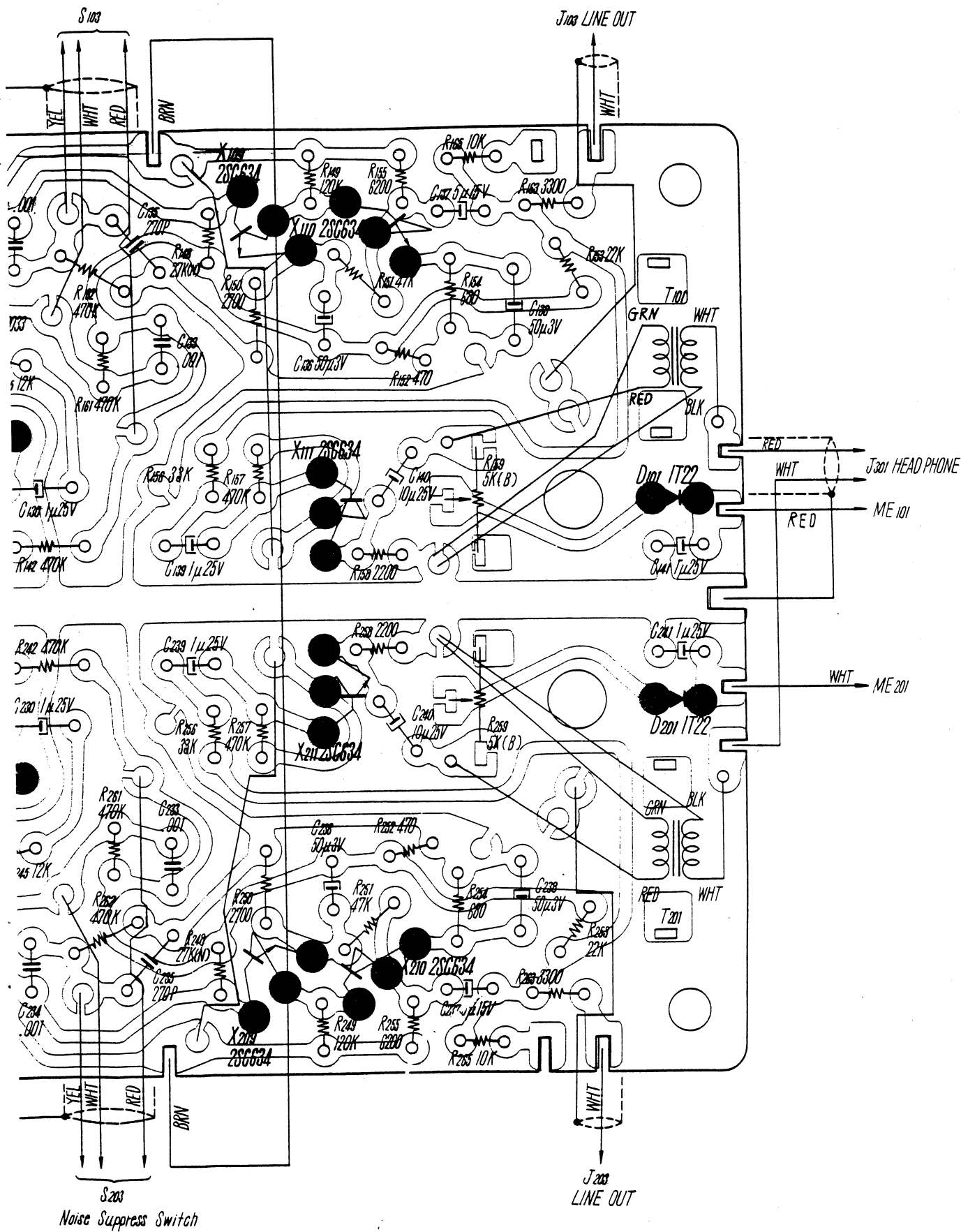


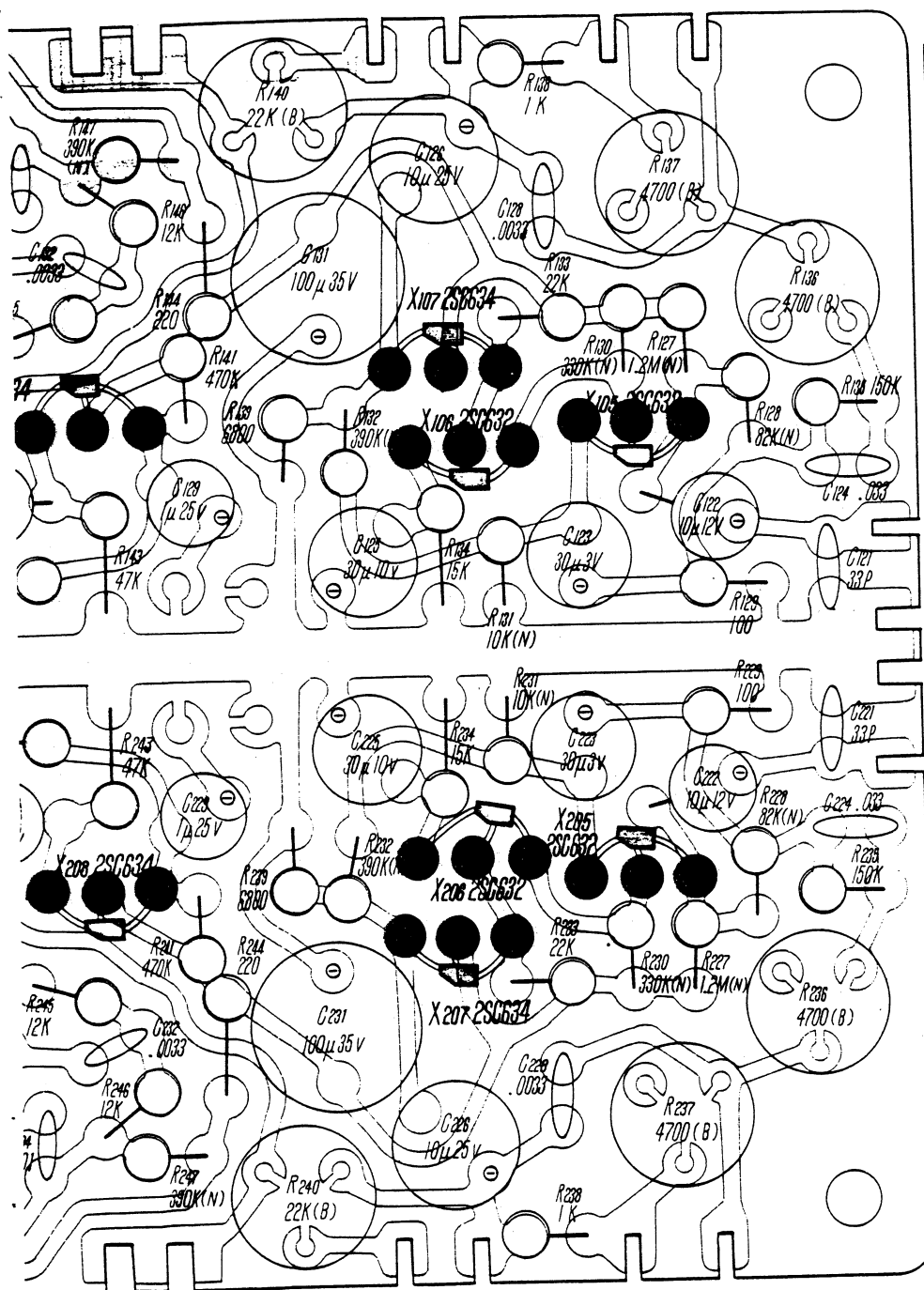
Mounting Diagram

Playback Amplifier Board Section

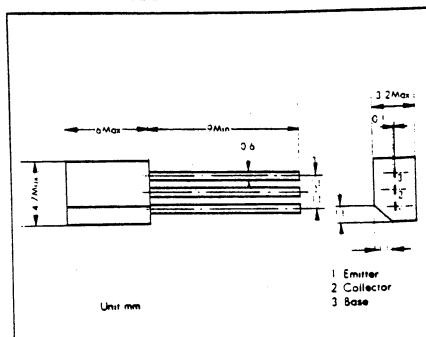
—Conductor Side—



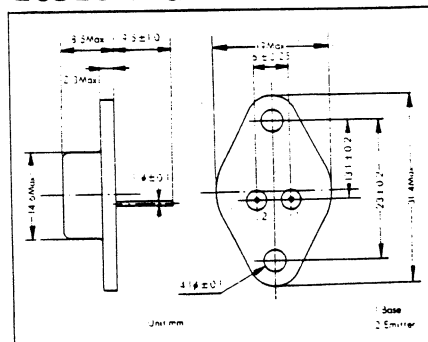




2SC63 □ Transistor



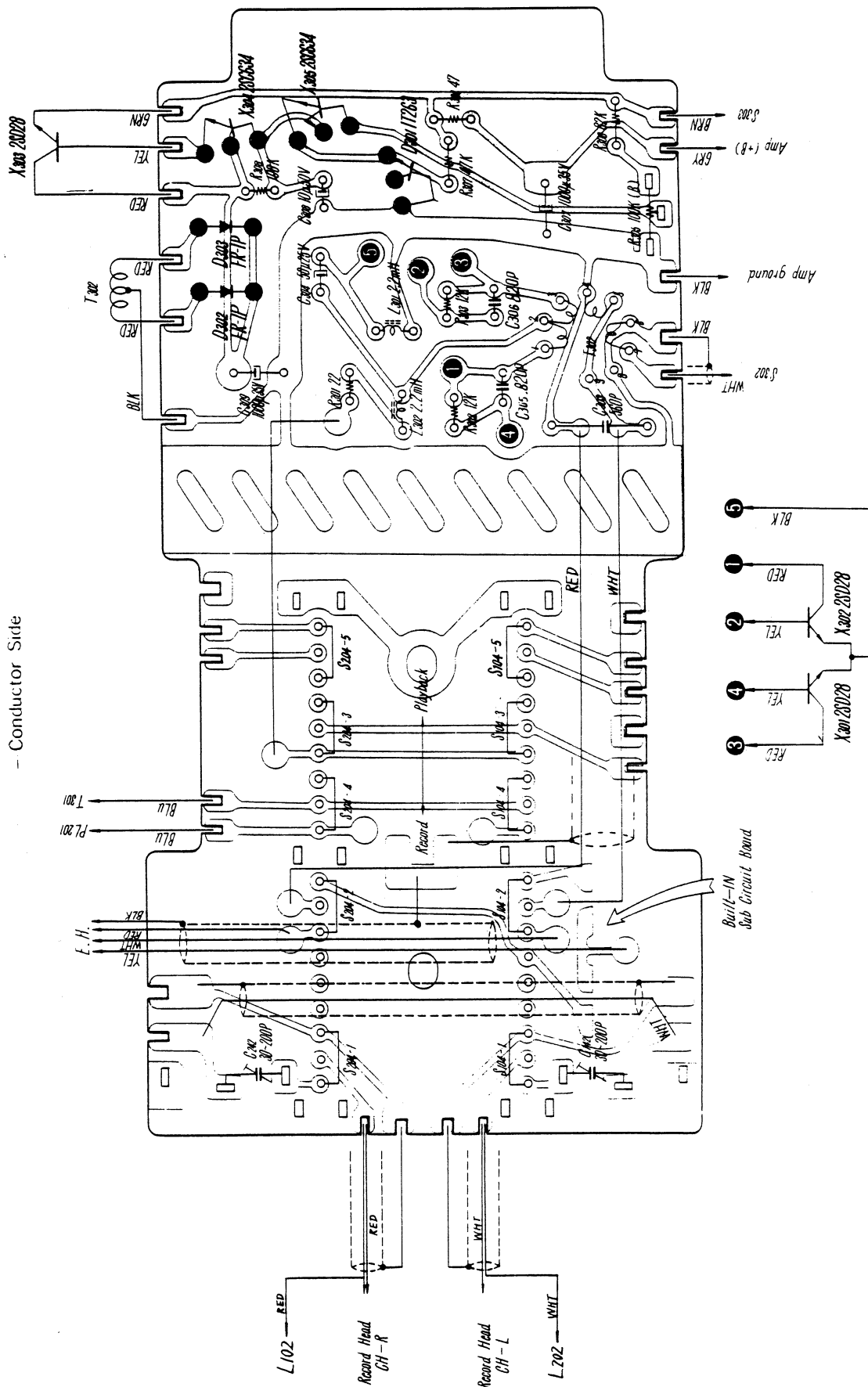
2SD28 Transistor



Mounting Diagram

Power Supply & Bias OSC Section

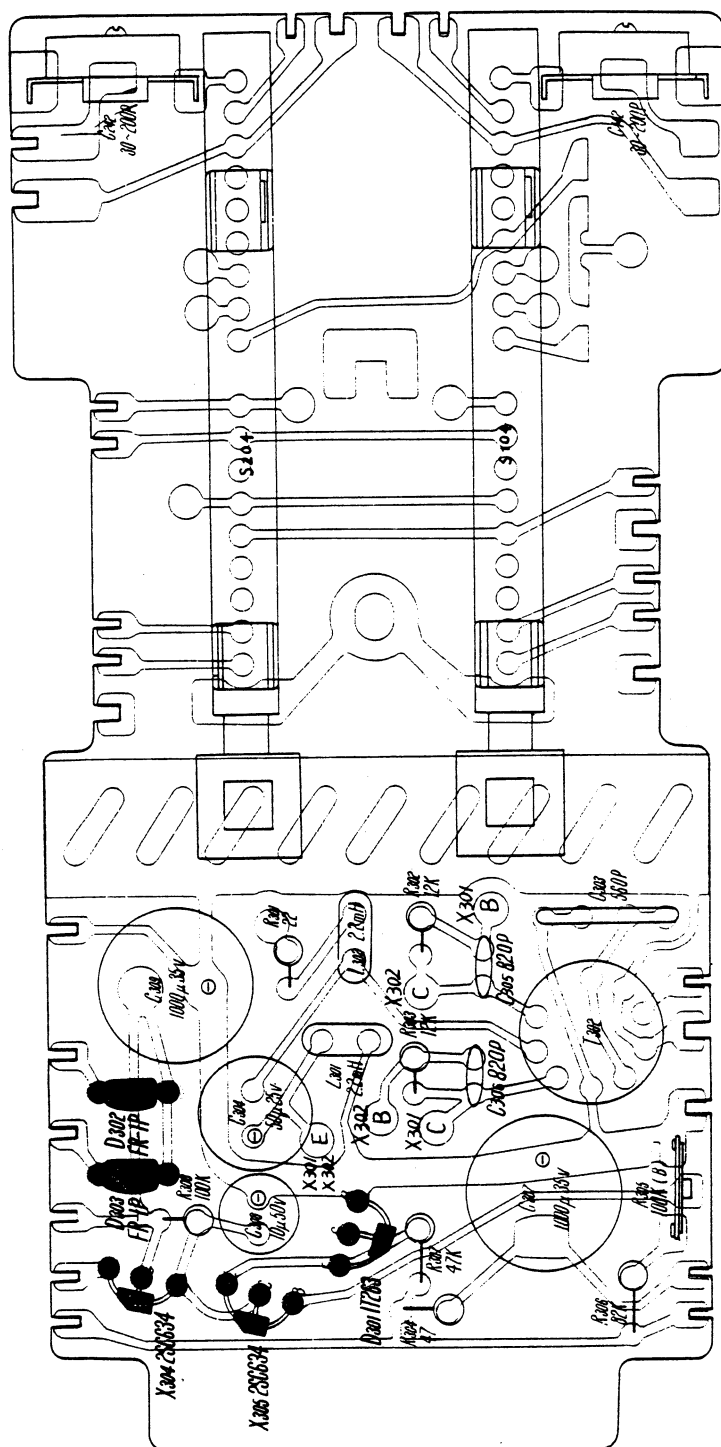
Conductor Side



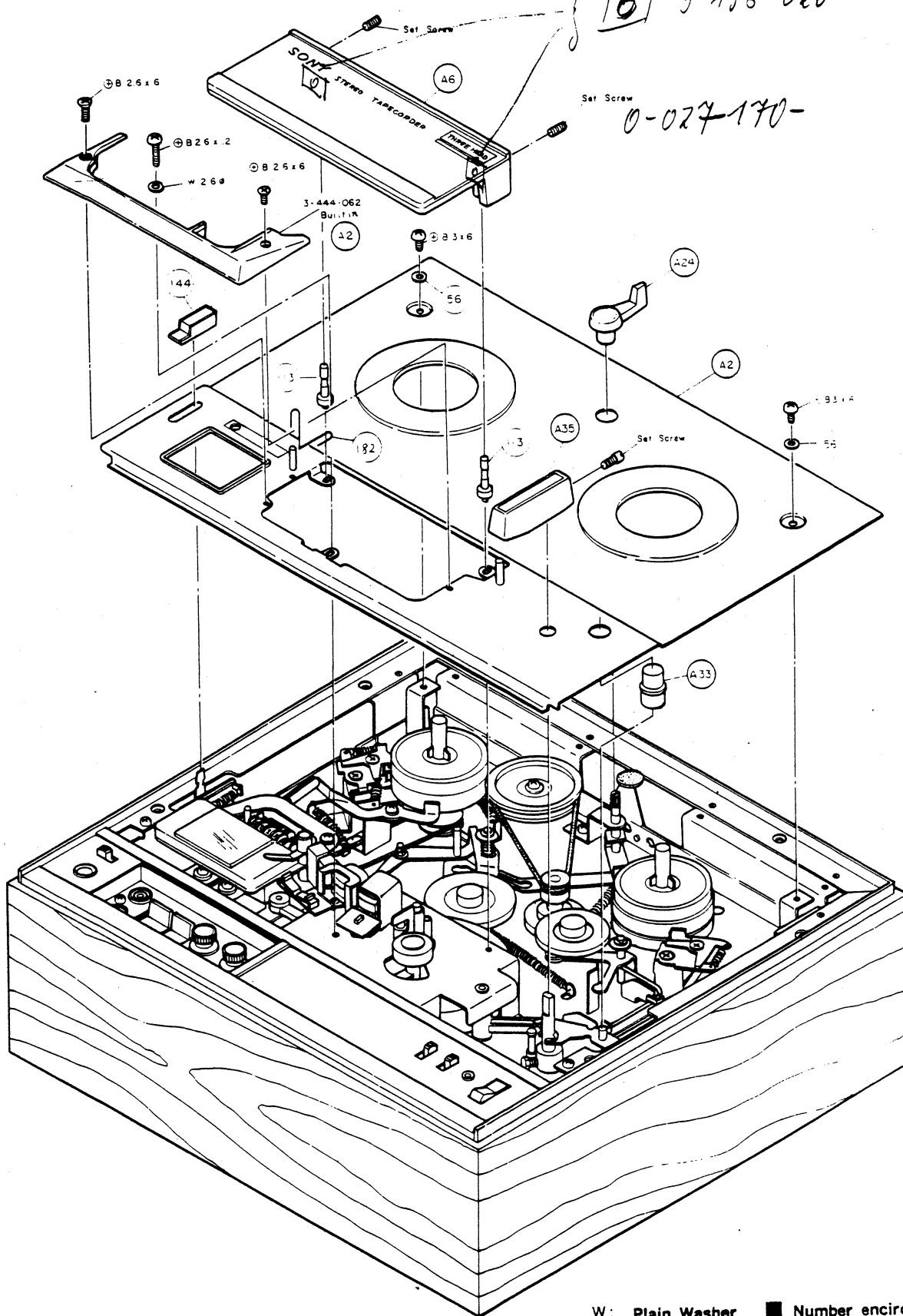
Mounting Diagram

Power Supply & Bias OSC Section

Component	Side
1. Introduction	Left
2. Background	Left
3. Methodology	Left
4. Results	Left
5. Discussion	Left
6. Conclusion	Left
7. References	Left
8. Appendix	Right
9. Index	Right
10. Table of Contents	Right



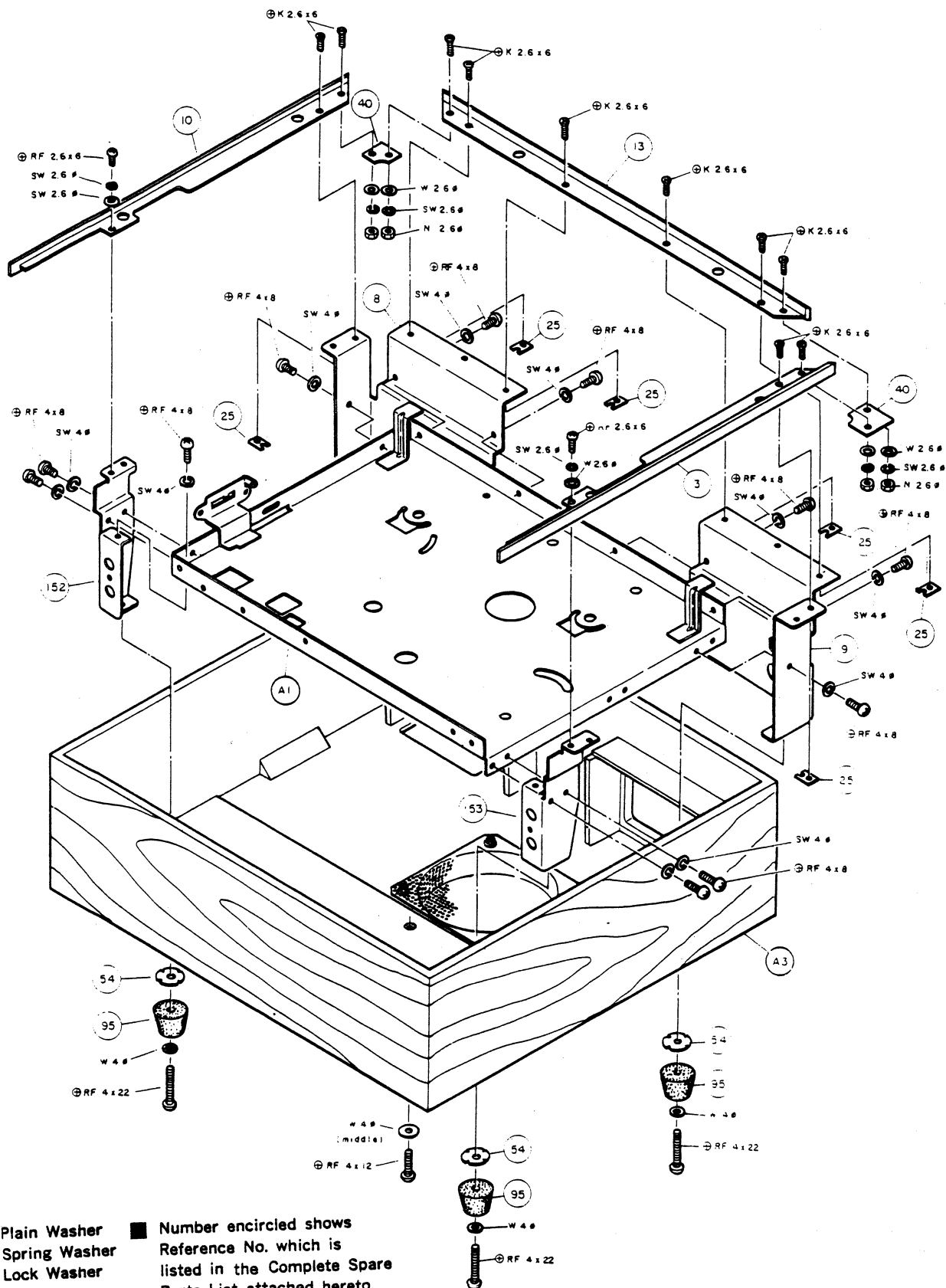
**Exploded Diagram
Cabinet—Top View**



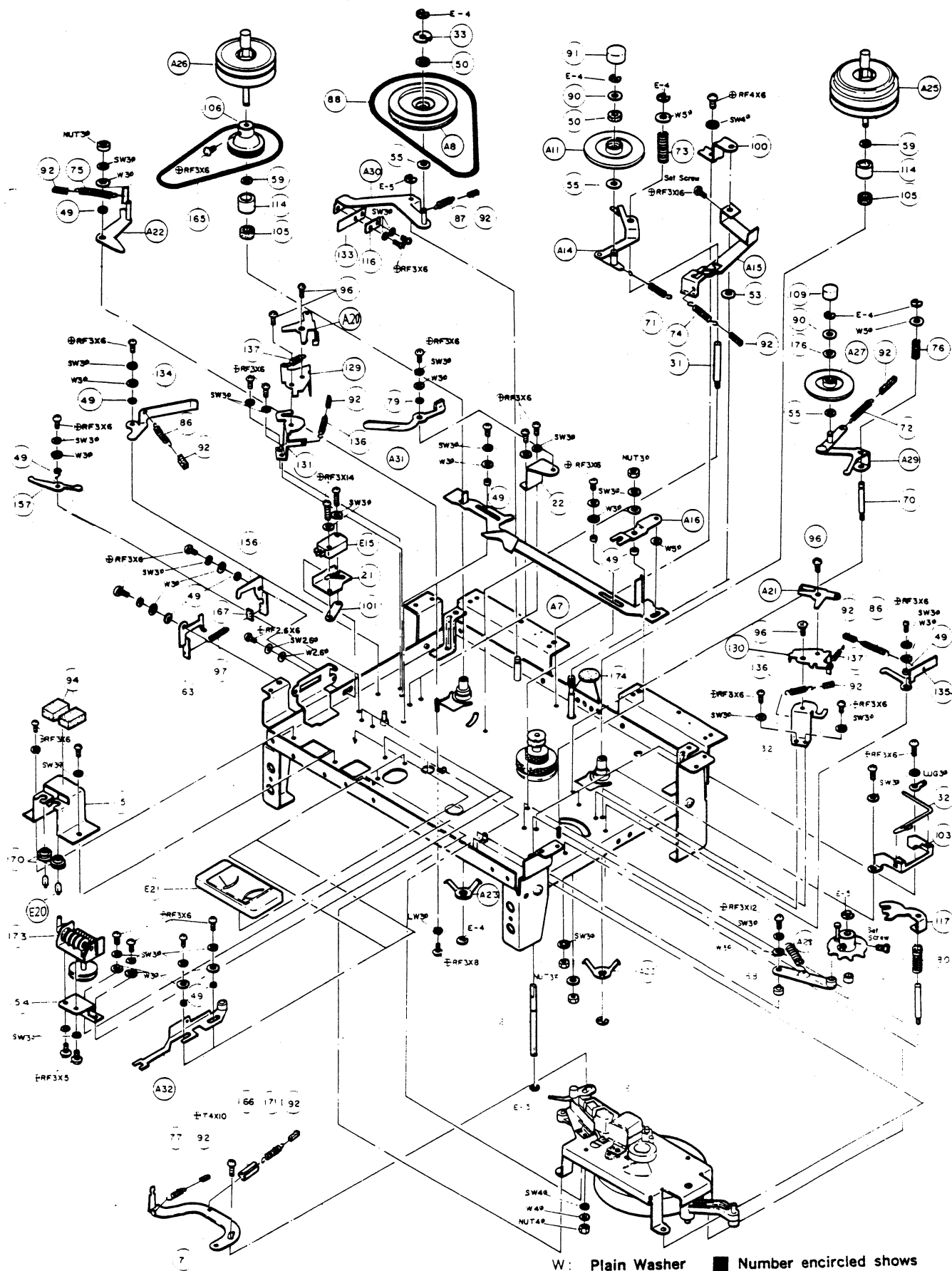
W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

Exploded Diagram Chassis Assembly —Top View



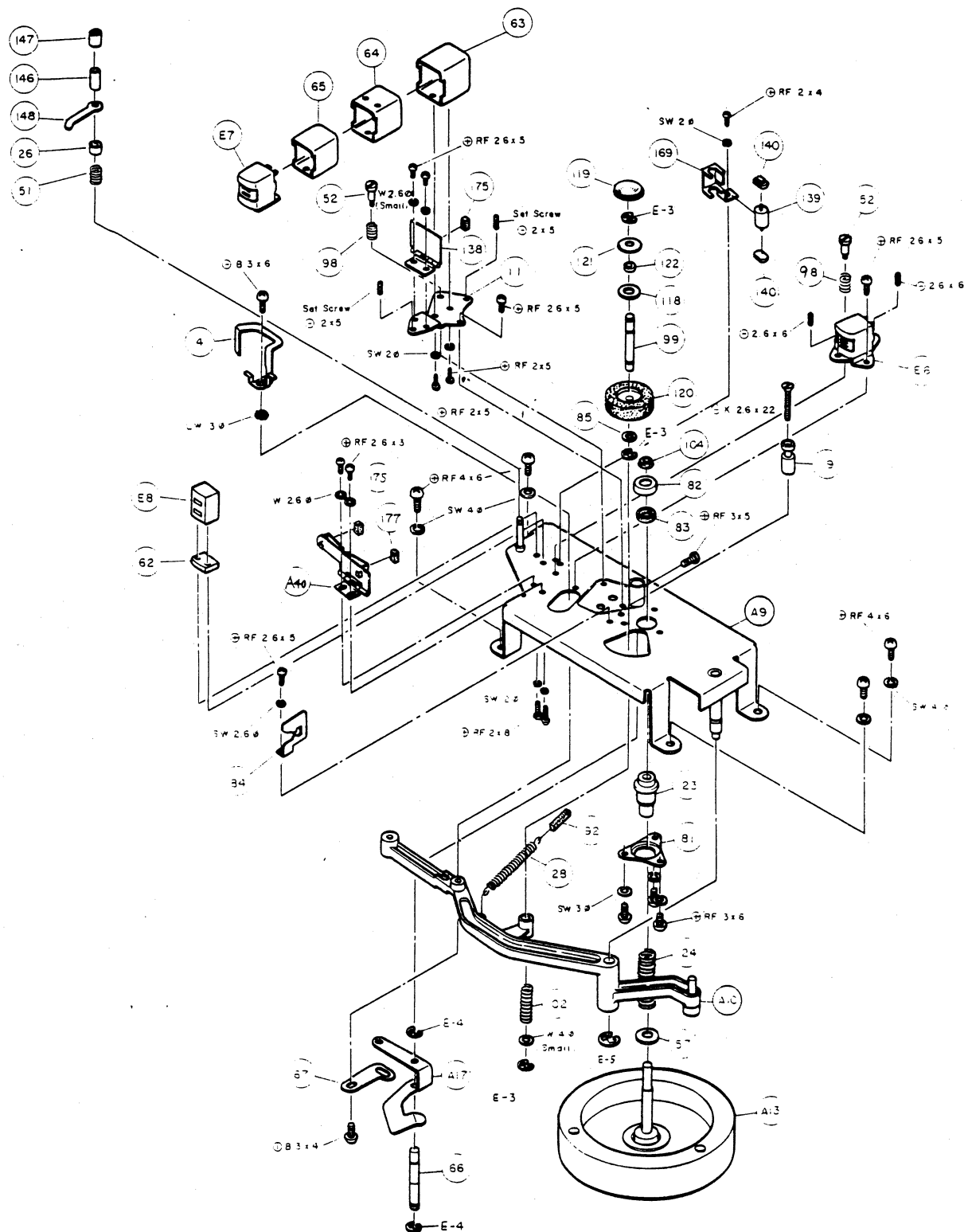
Exploded Diagram Chassis—Top View



W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

■ Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

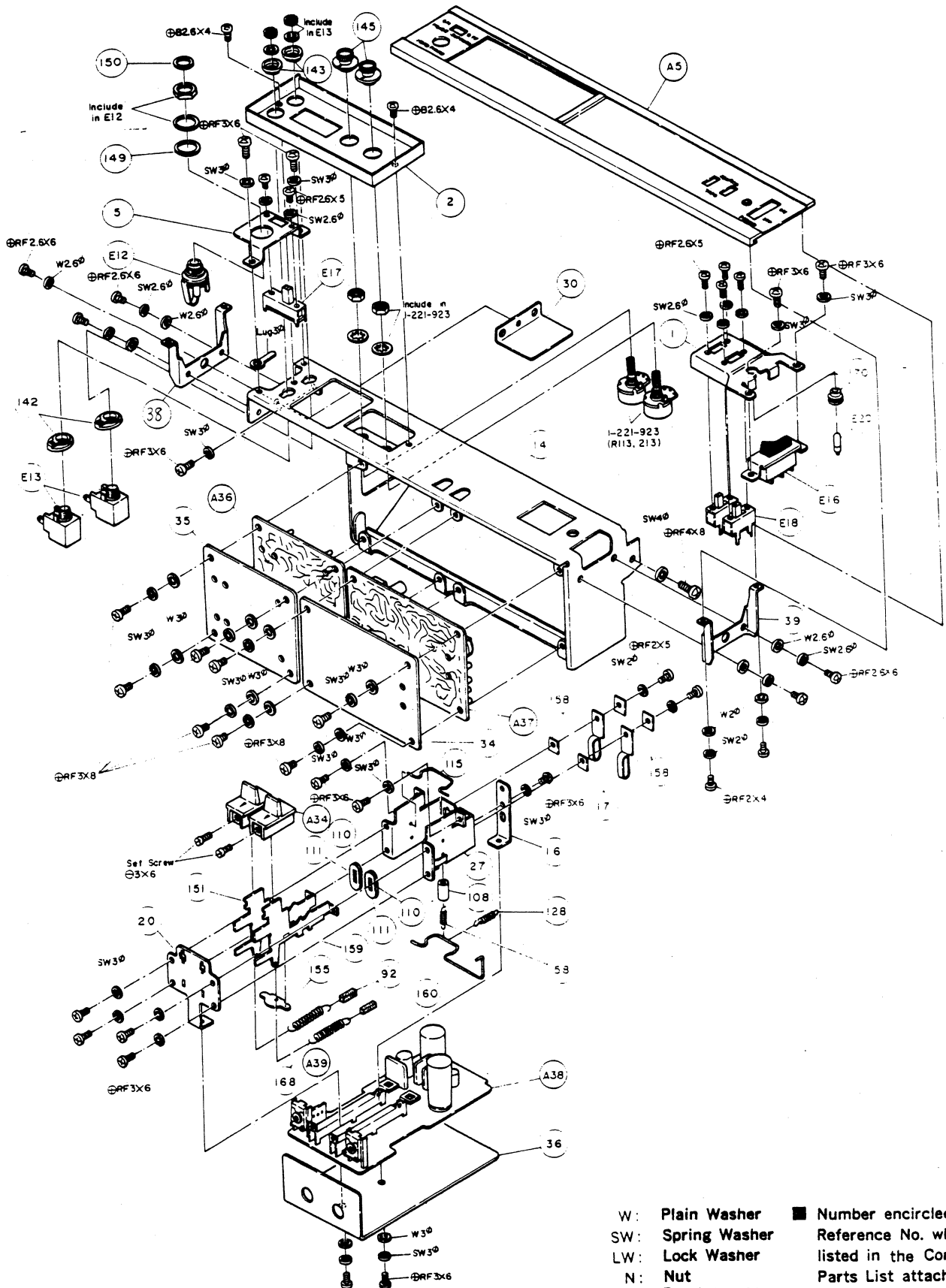
Exploded Diagram Head Deck—Top View



W: Plain Washer
SW: Spring Washer
LW: Lock Washer
N: Nut
E: Retaining Ring

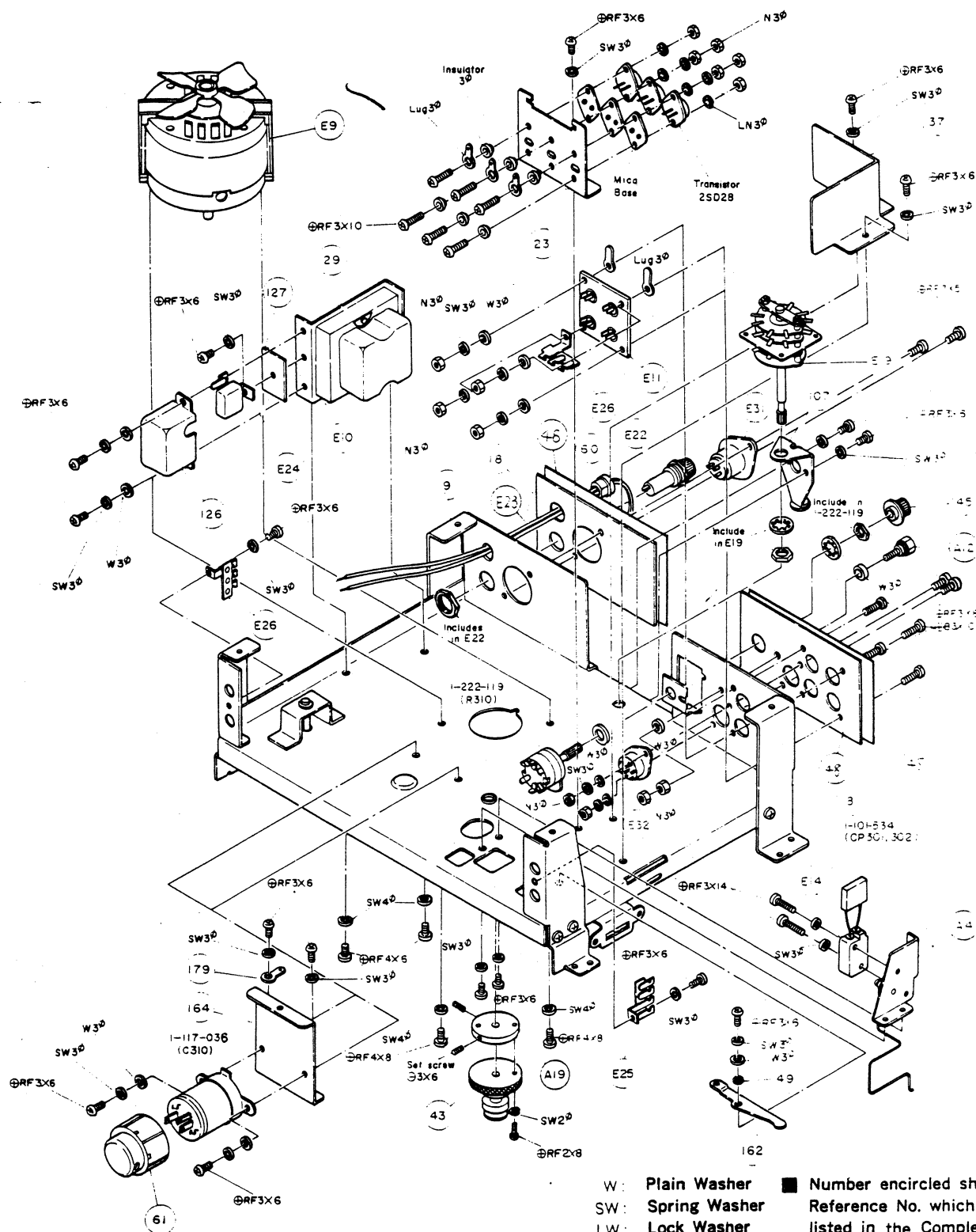
Number encircled shows Reference No. which is listed in the Complete Spare Parts List attached hereto.

Exploded Diagram Front Chassis—Top View



Exploded Diagram

Chassis—Bottom View



SONY CORPORATION

SONY CORPORATION

COMPLETE SPARE PARTS LIST FOR TC-355

(for GENERAL EXPORT Model)

FEBRUARY, 1970

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
<u>MECHANICAL PARTS</u>			
A1	X-34440-01	Base Plate Ass'y -----	
A2	X-34440-02	Reel Panel Ass'y -----	
A3	X-34440-03	Complete Cabinet Ass'y -----	
A4	X-34440-04	Actuator Ass'y, automatic shut-off -----	
A5	X-34440-05	Sash Ass'y, front panel -----	
A6	X-34440-07	Head Cover Ass'y -----	
A8	X-34440-09	Idler Ass'y, rewind -----	
A9	X-34440-10	Head Deck Ass'y -----	
A10	X-34440-11	Pinch Lever Ass'y -----	
A11	X-00270-03	Idler Ass'y, capstan -----	
A12	X-20319-01	Terminal Strips Ass'y (small type) -----	
A13	X-34180-04	Flywheel Ass'y, capstan shaft -----	
A14	X-34180-06	Idler Arm Ass'y, capstan -----	
A15	X-34180-08	Lever Ass'y, speed selector -----	
A16	X-34180-14	Joint Lever Ass'y, function selector cam & slider -----	
A17	X-34180-27	Cam Ass'y, pinch roller up & down -----	
A18	X-34180-30	Arm Ass'y, stepper -----	
A19	X-34180-33	Mounting Plate Ass'y, motor pulley -----	
A22	X-34300-02	Lever Ass'y, capstan idler release -----	
A23	X-34300-03	Spring Ass'y, take-up and feed reel table ---	
A24	X-34300-09	Knob Ass'y, speed selector -----	
A25	X-34300-14	Reel Table Ass'y, take-up -----	
A26	X-34300-15	Reel Table Ass'y, feed reel -----	
A27	X-34300-25-8	Idler Ass'y, take-up -----	
A28	X-34300-26	Cam Ass'y, function selector -----	
A29	X-34300-27	Lever Ass'y, take-up idler -----	
A30	X-34360-15	Lever Ass'y, rewind -----	
A31	X-34360-17	Brake Ass'y, instant stop -----	
A32	X-34380-08	Lock Ass'y, stopper -----	
A33	X-34380-10	Button Ass'y, fast forward -----	
A34	X-34380-11	Button Ass'y, record -----	
A35	X-34380-13	Knob Ass'y, function selector -----	
A36	X-34440-51-1	Mounted Circuit Board, record amplifier -----	
A37	X-34440-52-1	Mounted Circuit Board, playback amplifier ---	

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
138	X-34440-53-1	Mounted Circuit Board, power supply	
440	X-34440-12	<i>tape pen hinge</i> & bias OSC. -----	
139	X-34440-54-1	Mounted Circuit Board, dummy coil -----	
	X-34420-06	Tension Spring Ass'y, take-up -----	
	X-34510-35	Brake (A) Ass'y, feed -----	
	X-34510-37	Brake Ass'y, take-up -----	
1	3-444-017	Bracket, seesaw switch -----	
2	3-444-018	Ornamental Plate, jack -----	
3	3-444-019	Sash (A) -----	
4	3-444-020	Shifter, head pad -----	
5	3-444-021	Bracket, binaural jack -----	
6	3-444-022	Lever, instant stop -----	
7	3-444-023	Lever, instant stop -----	
8	3-444-025	Bracket, jack (A) -----	
9	3-444-026	Bracket, jack (B) -----	
10	3-444-027	Sash B -----	
	3-444-029	<i>spring, hinge</i> -----	
13	3-444-030	Sash C -----	
15	3-444-032	Bracket, VU meter holder -----	
16	3-444-033	Bracket, record switch -----	
17	3-444-034	Spring, record switch holder -----	
18	3-444-035	Ornamental Plate, jack A -----	
20	3-444-038	Supporter, record lever -----	
21	3-444-039	Holder, microphone switch -----	
22	3-444-040	Retainer, instant stop brake lever -----	
23	3-444-041	Bracket, power print -----	
24	3-444-042	Cover, switch -----	
25	3-444-043	Nut, sash retainer -----	
26	3-444-044	Tape Guide (lower part) -----	
27	3-444-045	Support, record change-over -----	
28	3-444-046	Helical Spring -----	
29	3-444-047	Holder, transformer -----	
30	3-444-048	Shield Plate -----	
31	3-444-049	Shaft, fast forward idler -----	
32	3-444-050	Clank -----	
33	3-444-051	Washer, rewind idler -----	
34	3-444-052	Shield Paper A -----	
35	3-444-053	Shield Paper B -----	
36	3-444-054	Shield Paper C -----	
37	3-444-055	Shield Plate B -----	
38	3-444-057	Holder, sash A -----	
39	3-444-058	Holder, sash B -----	
40	3-444-059	Retainer, sash -----	
	3-444-065	<i>Hinge, rec./erasor head</i>	

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<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
41	3-444-060	Tension Spring -----	
42	3-444-061	Insulator, terminal strips -----	
43	3-444-063-01 - 13	Motor Pulley 60 Hz -----	
	(3-444-064-01 - 13	Motor Pulley 30 Hz -----	
44	X-34440-12	Hinge Ass'y, head pad -----	
45	3-444-071	Cover, jack plate A -----	
46	3-444-072	Cover, jack plate B -----	
47	3-444-602	Name Plate, -----	
48	3-444-601	Ornamental Plate A, jack -----	
49	0-027-134	Shaft, stepper -----	
50	0-027-216	Oil Ring (B), 5 6 -----	
51	3-103-238	Spring, tape guide adjustable -----	
52	3-401-068	Screw, head adjusting -----	
53	3-402-764	Spacer -----	
54	3-403-724	Stopper, rubber foot -----	
55	3-405-407	Washer, drive wheel; thrust -----	
56	3-409-108	Washer, reel panel -----	
58	3-409-158	Lock Spring -----	
59	3-409-163	Washer, idler; thrust -----	
60	3-410-032	Stopper, cord; small -----	
61	3-410-044	Cap, capacitor -----	
62	3-412-080	Washer, erase head -----	
63	3-412-119	Case, shield A -----	
64	3-412-120	Case, shield B -----	
65	3-412-121	Case, shield C -----	
66	3-418-009	Shaft, pinch roller up & down adjustable ----	
67	3-418-011	Joint, pinch lever & shifter -----	
68	3-418-054	Spacer, stepper arm -----	
69	3-418-055	Shaft, lock lever -----	
70	3-418-060	Shaft, idler arm; speed selector lever guide shifter -----	
71	3-418-069	Spring, idler arm -----	
72	3-418-070	Spring, idler arm (horizontal use) -----	
73	3-418-073	Spring, idler arm shaft (vertical use) -----	
74	3-418-074	Spring, lever (horizontal use) -----	
75	3-418-075	Spring, idler release lever -----	
76	3-418-077	Spring, idler arm shaft (vertical use) -----	
77	3-418-079	Spring, lever -----	
78	3-418-085	Spacer, function selector cam shaft -----	
79	3-418-086	Spacer, brake lever -----	
80	3-418-091	Spring, lock lever shaft -----	
81	3-418-107	Support, capstan bearing -----	
82	3-418-111	Cap, capstan bearing -----	

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<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
83	3-418-112	Oil Ring, capstan bearing -----	
84	3-418-113	Tape Support, right -----	
85	3-418-115	Nylon Washer, 8 ϕ (outer diameter) pinch roller -----	
86	3-418-200	Spring, brake A -----	
87	3-418-201	Spring, brake B -----	
88	3-418-208	Belt, rewind idler -----	
89	3-419-070	Sticker, on cabinet bottom -----	
90	3-419-098-21	Washer; nylon -----	
91	3-419-211	Cap, rewind idler -----	
92	3-420-076	Rubber Foam Cushion (noise absorber) -----	
94	3-423-130	Rubber Foam Cushion -----	
95	3-424-049-05	Rubber Foot -----	
96	3-425-185	Shaft -----	
97	3-426-502	Helical Spring -----	
98	3-428-132	Helical Spring -----	
99	3-430-113	Shaft, pinch roller -----	
100	3-430-154	Bracket, speed selector shaft -----	
101	3-430-155	Plate, automatic shut-off actuator switch ---	
102	3-430-156	Spring, pinch lever cam -----	
103	3-430-157	Bracket, recording clank -----	
104	3-430-159-02	Washer, capstan shaft; black -----	
105	3-430-160	Washer, take-up and feed reel spindle -----	
106	3-430-161	Pulley, tape counter -----	
107	3-430-162	Bracket, speed equalizer switch -----	
108	3-430-170	Spacer, lock lever -----	
110	3-430-199	Washer, recording button; black -----	
111	3-430-200	Washer, recording button; black -----	
112	3-430-201	Shaft, function selector -----	
113	3-430-203-02	Shaft, head cover -----	
114	3-430-206	Cap, take-up and supply reel spindle -----	
115	3-430-212	Rod, record locking -----	
116	3-430-223	Lever, joint supply and take-up reel brake arm -----	
117	3-430-227	Cam, fast forward; lever -----	
118	3-430-231	Oil Ring, pinch roller -----	
119	3-430-232	Cap, pinch roller -----	
120	3-430-233	Roller, pinch -----	
121	3-430-234-01	Washer, pinch roller; mylar -----	
122	3-430-235	Spacer, pinch roller; metal -----	
123	3-430-237	Retainer, capstan shaft -----	
126	3-431-203	Cap, terminal -----	
127	3-431-204	Insulator, terminal; fiber -----	

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(C3-11)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
128	3-432-152	Helical Spring -----	
129	3-436-067	Brake, S2 -----	
130	3-436-068	Brake, T2 -----	
131	3-436-069-02	Brake, S3 -----	
132	3-436-070-03	Brake, T3 -----	
134	3-436-072-04	Joint Lever, feed reel -----	
135	3-436-073	Joint Lever, take-up -----	
136	3-436-075	Helical Spring -----	
137	3-436-076	Helical Spring -----	
138	3-436-122	Plate, head shield -----	
139	3-437-170	Roller, joint -----	
140	3-437-171-04	Retainer, roller shaft -----	
142	3-437-228	Insulator (A), miniature jack -----	
143	3-437-229-01	Insulator (B), miniature jack -----	
144	3-437-271	Knob, instant stop -----	
145	3-437-275	Knob, volume control (S) -----	
146	3-437-306	Tape Guide (B) -----	
147	3-437-307	Tape Guide (C) -----	
148	3-437-309	Retainer, tape guide (A) -----	
149	3-437-423	Washer, insulator -----	
150	3-437-436	Insulating Washer, binaural jack -----	
151	3-438-028	Lever, record (A) -----	
152	3-438-030	Leg, plate (left) -----	
153	3-438-031	Leg, plate (right) -----	
154	3-438-033	Bracket, tape index counter -----	
155	3-438-037	Bracket, leaf switch -----	
156	3-438-038	Bracket, instant stop shifter (A) -----	
157	3-438-039	Bracket, instant stop shifter (B) -----	
158	3-438-040	Retainer, plate spring -----	
159	3-438-041	Lever, record (B) -----	
160	3-438-044	Lock Lever, clank -----	
161	3-438-046	Full Rod, lock plate -----	
162	3-438-047	Bracket, instant stop lock -----	
163	3-438-048	Bracket, instant stop shifter (C) -----	
164	3-438-050	Holder, capacitor -----	
165	3-438-053	Belt, tape index counter -----	
166	3-438-054	Collar, instant stop -----	
167	3-438-077	Cushion, shifter plate -----	
168	3-438-080	Helical Spring -----	
169	3-438-058	Bracket, roller holder -----	
170	3-442-022	Retainer, pilot lamp -----	
171	3-442-030	Helical Spring -----	
172	3-701-030	Self Label -----	

Ref. No.	Part No.	Description	Unit Price
173	Y-20410- 11-3 ^{12-2 (18 1.23 4.)}	Tape Index Counter XI Type -----	
174	0-041-041	Washer, reel panel; white -----	
175	0-041-129	Pad, erase, playback and record head -----	
178	0-051-235	Wire Retainer -----	
179	3-401-179	Lug, wire retainer -----	
180	3-401-482	Washer -----	
	2-825-006	Mica Spacer, MD-17 -----	
	2-832-002	Bushing, insulating; F-1 -----	
	3-005-001	Spring, record head adjusting -----	
	3-407-076	Retainer, washer -----	
	3-418-191	Screw, head adjusting -----	
	3-419-098	Nylon Washer -----	
	3-444-073	Guide, actuator -----	
	3-444-074	Bracket (A), cabinet -----	
	3-444-075	Bracket (B), cabinet -----	
	3-444-077	Insulating Plate, p.b. head -----	
	3-444-078	Holding Plate, leaf switch -----	
	3-444-084	Spring -----	
	3-444-085	Spring, rewind -----	
	3-444-523	Chassis, front panel -----	
	3-444-524	Protecting Sheet, dust cover -----	
	3-444-603	Insulating Plate, binaural jack -----	
	3-444-604	Pad (C) -----	
	3-451-138	Table, head mounting -----	
	3-451-139	Tape Guide -----	
	3-451-159	Slider -----	
	3-460-075	Washer, nylon -----	
	3-790-255-14	Instruction Manual -----	
	3-793-010	Booklet, tap talk -----	
	3-793-072-11	Card, voltage indicating -----	
	3-103-191	Polyethylene Bag, accessories -----	
	3-701-020	Bag, check sheet -----	
	3-444-605	Cover (C), jack plate -----	
	3-430-229-03	Reel Cap, C -----	
	8-860-107	Reel, R-7A -----	
	1-534-049-31	Connection Cord RK-74 -----	
	3-444-066	Dust Protector, DP-355 -----	
	3-444-067-04	Carton -----	
	3-444-068-03	Cushion, side -----	
	3-444-069-01	Cushion, upper -----	

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(C3-11)

Ref.
No.

Part No.

Description

Unit
Price

3-444-070	Polyethylene Bag, dust protector -----
3-442-027	Polyethylene Bag, set -----
X-37010-20-2	Pad Ass'y, non-skid -----
3-701-062	Tack Label, 60 Hz -----
3-793-124	Caution Label, head -----
X-37010-18-2	Cleaner Ass'y, head -----
3-701-061	Tack Label, 50 Hz -----
3-701-064	Bag, accessory - -----
7-621-255-25	Screw (+) P 2 x 4 -----
7-621-255-35	" (+) P 2 x 5 -----
7-621-255-55	" (+) P 2 x 8 -----
7-621-255-45	" (+) P 2 x 6 -----
7-621-259-12	" (+) P 2.6 x 3 -----
7-621-259-22	" (+) P 2.6 x 4 -----
7-621-259-32	" (+) P 2.6 x 5 -----
7-621-259-35	" (+) P 2.6 x 5 -----
7-621-259-45	" (+) P 2.6 x 6 -----
7-621-261-32	" (+) P 3 x 5 -----
7-621-261-35	" (+) P 3 x 5 -----
7-621-261-45	" (+) P 3 x 6 -----
7-621-261-65	" (+) P 3 x 10 -----
7-621-261-62	" (+) P 3 x 10 -----
7-621-261-85	" (+) P 3 x 14 -----
7-621-262-05	" (+) P 3 x 16 -----
7-621-268-45	" (+) P 4 x 6 -----
7-621-268-55	" (+) P 4 x 8 -----
7-621-268-75	" (+) P 4 x 12 -----
7-621-269-35	" (+) P 4 x 22 -----
7-628-251-25	" (+) P 3 x 6 (w/ spring washer) -----
7-628-251-35	" (+) P 3 x 8 (w/ spring washer) -----
7-621-559-42	" (+) K 2.6 x 6 -----
7-621-559-55	" (+) K 2.6 x 8 -----
7-621-510-32	" (-) K 2.6 x 22 -----
7-621-770-24	" (+) B 3 x 6 -----
7-621-770-36	" (+) B 2.6 x 4 -----
7-621-770-52	" (+) B 2.6 x 12 -----
7-621-770-22	" (+) B 3 x 6 -----
7-621-770-49	" (+) B 3 x 6 -----
7-621-770-40	" (+) B 3 x 10 -----
7-621-468-65	" (+) T 4 x 10 -----
7-621-710-25	" (-) SC 2 x 3 -----
7-621-710-56	" (-) SC 2 x 6 -----

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(C3-11)

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
	7-621-712-56	Set Screw (-) 2.6 x 6 -----	
	7-621-713-16	" (-) SC 3 x 3 -----	
	7-623-105-12	Washer 2 ϕ -----	
	7-623-107-02	" 2.6 ϕ (small) -----	
	7-623-107-12	" 2.6 ϕ -----	
	7-623-108-12	" 3 ϕ -----	
	7-623-108-22	" 3 ϕ -----	
	7-623-110-02	" 4 ϕ (small) -----	
	7-623-110-12	" 4 ϕ -----	
	7-623-112-12	" 5 ϕ -----	
	7-623-112-18	" 5 ϕ t=0.4 -----	
	7-623-205-22	Spring Washer 2 ϕ -----	
	7-623-207-22	" 2.6 ϕ -----	
	7-623-208-22	" 3 ϕ -----	
	7-623-210-22	" 4 ϕ -----	
	7-623-308-05	Star Washer 3 ϕ (internal) -----	
	7-623-408-05	" 3 ϕ (external) -----	
	7-622-107-02	Nut 2.6 ϕ -----	
	7-622-108-02	" 3 ϕ -----	
	7-622-110-02	" 4 ϕ -----	
	7-623-508-01	Lug 3 ϕ -----	
	7-624-106-01	Retaining Ring E-3 -----	
	7-624-108-01	" " E-4 -----	
	7-624-109-01	" " E-5 -----	

8/14 (TC-355 GENERAL EXPORT Model)

(C3-11)

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
<u>ELECTRICAL PARTS</u>			
		Transistor, 2SC632	Q101,201,102,202, 205,206,105,106 ---
		" 2SC634	Q207,107,108,109, 103,104,208,209, 210,211,110,111, 203,204,304,305 ---
		" 2SD28	Q301,302,303 -----
		Diode, 1T22	D101,201 -----
		" 1T243M	D301 -----
		" FR-1P	D302,303 -----
E1	1-427-217	Output Transformer	T101,201 -----
E2	1-407-198	Micro Inductor 2.2 mH	L301,302 -----
E3	1-407-284	Coil, dummy	L103,203 -----
E4	1-433-122	Oscillator Transformer	T302 -----
E5	1-513-231-16	Switch, slide	S104,204 -----
E6	8-824-129-20	Record Head RP30-2902	-----
E7	8-821-229-01	Playback Head PP3Q-2902A	-----
E8	8-826-629-23	Erase Head EF18-2920H2	-----
E9	8-832-624-09	Motor IC-624H1	-----
E10	1-441-586	Power Transformer	T301 -----
E11	1-507-163	4 P Jack	J201,203,101,103 ---
E12	1-507-187	Jack, binaural USA Type	J301 -----
E13	1-507-188	Jack, microphone	J102,202 -----
E14	1-514-039-02	Micro Switch	S304 -----
E15	1-514-057	Micro Switch	S303 -----
E16	1-514-306	Switch, seesaw	S305 -----
E17	1-514-324	Switch, slide	S103,203 -----
E18	1-514-415-21	Slide Switch, mode	S102,202 -----
E19	1-514-416	Switch, rotary	S101,201,302 -----
E20	1-518-093	Pilot Lamp	PL301,101,201 -----
E21	1-524-051-21	Level Meter, stereo	ME101,201 -----
E22	1-533-048-21	Fuse Holder	-----
E23	1-534-487	Cord, power supply	-----
E24	1-536-146	Terminal Strips, A type 1L1	-----
E25	1-536-147	Terminal Strips, A type 1L2	-----
E26	1-536-149	Terminal Strips, A type 2L	-----
E27	1-538-785-11	Printed Circuit Board, record amp.	-----
E28	1-538-784-12	Printed Circuit Board, playback amp.	-----
E29	1-538-783-11	Printed Circuit Board, power supply & bias osc.	-----
E31	1-509-029-02	Connector, rec./p.b.	-----
E32	1-509-064	Socket, voltage selector	-----
	1-532-163	Fuse, 0.8 A	-----

<u>Ref.</u> <u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit</u> <u>Price</u>
E30	1-538-782-11	Printed Circuit Board, sub -----	
	1-231-069	Coil, equalizer L101,201 -----	
	1-409-141	Coil, trap L102,202 -----	
	1-514-055	Switch, leaf S105,205 -----	
	1-117-036	MP Capacitor 1.5uF+0.5uF C310 -----	

Capacitor, mylar

1-106-058-12)	0.001 uF	50 WV	± 10 %	
1-105-661-12)				C244,245,144,145 ---
1-106-082-12)	0.01 uF	"	"	C119,219 -----
1-105-673-12)				
1-106-084-12)	0.012 uF	"	"	C118,218 -----
1-105-674-12)				
1-106-092-12)	0.027 uF	"	"	C111,211 -----
1-105-678-12)				
1-106-102-12)	0.068 uF	"	"	C112,212 -----
1-105-683-12)				
1-106-110-12)	0.15 uF	"	"	C113,213 -----
1-105-687-12)				
1-106-058-12)	0.001 uF	"	"	C233,234,133,134 ---
1-105-661-12)				
1-106-070-12)	0.0033 uF	"	"	C232,228,132,128 ---
1-105-667-12)				
1-106-094-12)	0.033 uF	"	"	C124,224 -----
1-105-679-12)				
1-105-845-12	0.1 uF	"	± 20 %	C314 -----
1-105-759-12	0.033 uF	200 WV	± 10 %	C315 -----

Capacitor, silvered mica

1-107-054	33 pF	500 WV	± 10 %	C103,203 -----
1-107-056	56 pF	"	"	C114,214 -----
1-107-221	560 pF	1500 WV	"	C303 -----
1-107-004	100 pF	500 WV	"	C311,312,143,243 ---
1-107-035	560 pF	"	"	C302 -----

10/14 (TC-355 GENERAL EXPORT Model)

(C3-11)

Ref. No.	Part No.	Description	Unit Price
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Capacitor, electrolytic

1-121-343	1 μ F	50 WV	C109,209 -----
1-121-463	4.7 μ F	16 WV	C116,216 -----
1-121-471	10 μ F	"	C205,206,106,201, 202,101,102,105 ---
1-121-481	33 μ F	3.15 WV	C110,210 -----
1-121-486	47 μ F	"	C207,215,107,115 ---
1-121-289	47 μ F	25 WV +150 -10 %	C304 -----
1-121-290	100 μ F	3 WV	C104,204 -----
1-121-442	1 μ F	50 WV +200 -10 %	C229,239,141, 241,230,129,130, 139 -----
1-121-463	4.7 μ F	16 WV +150 -10 %	C137,237 -----
1-121-471	10 μ F	"	C122,222 -----
1-121-472	10 μ F	25 WV "	C126,226,140, 240 -----
1-121-481	33 μ F	3.15 WV "	C123,223 -----
1-121-485	33 μ F	16 WV "	C125,225 -----
1-121-486	47 μ F	3.15 WV "	C236,238,136,138 ---
1-121-357	100 μ F	35 WV "	C131,231 -----
1-121-474	10 μ F	50 WV "	C308 -----
1-121-289	47 μ F	25 WV	C108,208 -----
1-121-388	1000 μ F	35 WV +150 -10 %	C307,309 -----
1-127-022	0.5 μ F	10 WV \pm 20 %	C117,217 -----

Resistor, carbon

1-242-653	150 Ω	\pm 10 %	RD1/4UR, ELR1/4	R160,260 ----
1-242-665	470 Ω	\pm 5 %	"	R120,220 ----
1-242-669	680 Ω	"	"	R123,223 ----
1-242-681-11)	2.2 k Ω	\pm 10 %	"	R125,225 ----
1-242-681-12)	2.2 k Ω	"	"	R115,215 ----
1-242-681-31)	2.2 k Ω	"	"	R115,215 ----
1-242-681-32)	2.2 k Ω	"	"	R115,215 ----
1-242-683	2.7 k Ω	"	"	R112,212 ----
1-242-685-09	3.3 k Ω	\pm 5 %	RD1/4UR	R108,208 ----
1-242-685-11)	3.3 k Ω	"	RD1/4UR, ELR1/4	R119,219 ----
1-242-685-12)	3.3 k Ω	"	RD1/4UR, ELR1/4	R119,219 ----
1-242-691	5.6 k Ω	"	"	R124,224 ----
1-242-695	8.2 k Ω	"	"	R126,226 ----
1-242-697	10 k Ω	"	RD1/4UR	R104,204 ----

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
	1-242-705-11)	22 kΩ ±5 % RD1/4UR, ELR1/4	R122,222 ----
	1-242-705-12)		
	1-242-705-31)	22 kΩ ±10 % "	R111,211-----
	1-242-705-32)		
	1-242-712	43 kΩ ±5 % RD1/4UR	R117,217 ----
	1-242-713-09	47 kΩ " "	R205,206,203, 106,103,105-
	1-242-713-11)	47 kΩ " RD1/4UR, ELR1/4	R109,209,121, 221 -----
	1-242-713-12)		
	1-242-717-09	68 kΩ " RD1/4UR	R110,210 ----
	1-242-717-11	68 kΩ " RD1/4UR, ELR1/4	R118,218 ----
	1-242-737	470 kΩ " RD1/4UR	R116,216 ----
	1-242-649	100 Ω " RD1/4UR, ELR1/4	R129,229 ----
	1-242-657	220 Ω " "	R144,244 ----
	1-242-665	470 Ω " "	R152,252 ----
	1-242-669	680 Ω " "	R154,254 ----
	1-242-673	1 kΩ " "	R138,238 ----
	1-242-681	2.2 kΩ " "	R158,258 ----
	1-242-683	2.7 kΩ " "	R150,250 ----
	1-242-685	3.3 kΩ " "	R163,263 ----
	1-242-692	6.2 kΩ " "	R155,255 ----
	1-242-693	6.8 kΩ ±10 % "	R139,239 ----
	1-242-697-09	10 kΩ ±5 % "	R131,231 ----
	1-242-699	12 kΩ " "	R245,246,145, 146 -----
	1-242-701	15 kΩ ±10 % "	R134,234 ----
	1-242-705-32)	22 kΩ " "	R133,233 ----
	1-242-705-31)		
	1-242-705-11)	22 kΩ " "	R153,253 ----
	1-242-705-12)		
	1-242-707	27 kΩ " RD1/4UR	R148,248 ----
	1-242-709	33 kΩ " RD1/4UR, ELR1/4	R156,256 ----
	1-242-713	47 kΩ " "	R243,251,143, 151 -----
	1-242-719	82 kΩ " RD1/4UR	R128,228 ----
	1-242-671	820 Ω " "	R107,207 ----
	1-242-723	120 kΩ " RD1/4UR, ELR1/4	R149,249 ----
	1-242-725	150 kΩ " "	R135,235 ----
	1-242-733	330 kΩ " "	R130,230 ----
	1-242-735	390 kΩ " RD1/4UR	R132,232,147, 247 -----
	1-242-737	470 kΩ " RD1/4UR, ELR1/4	R141,142,157, 262,242,257, 261,161,162, 241 -----
	1-242-697-31	10 kΩ " "	R165,265 ----

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Unit Price</u>
	1-242-747	1.2 MΩ <u>+5 %</u> RD1/4UR	R127,227 ----
	1-242-625	10 Ω " RD1/4UR, ELR1/4	R312 ----
	1-242-641	47 Ω " "	R304 ----
	1-242-699	12 kΩ " "	R302,303 ----
	1-242-713	47 kΩ " "	R307 ----
	1-242-719	82 kΩ " "	R306 ----
	1-242-721	100 kΩ " "	R308 ----
	1-244-681	2.2 kΩ " RD1/4SR	R102,202 ----
	1-244-689	4.7 kΩ <u>+10 %</u> "	R311 ----
	1-244-705	22 kΩ <u>+5 %</u> "	R309 ----
	1-244-739	560 kΩ " "	R101,201 ----
	1-244-843	56 Ω " "	R301 ----
	1-244-673	1 kΩ " RD1/4SR	R166,266 ----
	1-244-697	10 kΩ " "	R164,264 ----

Capacitor, polyethylene

1-129-659	270 pF	50 WV	<u>+10 %</u>	C135,235 ----
1-129-665	820 pF	"	"	C305,306 ----
1-129-663	560 pF	"	"	C120,220 ----

Encapsulated Component

1-101-534-12	0.1 μF+120 Ω	CP301,302 ----
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Capacitor, trimmer (padding type)

1-141-076	30 -200 pF	C142,242 ----
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Variator Resistor

1-221-923	200 kΩ	R113,213 ----
1-222-119	200 kΩ	R310, S301 ----

Capacitor, polystyrol

1-103-675	1000 pF	50 WV	<u>+10 %</u>	C301 ----
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